



July 25, 2022

Ms. Shari Kolak
Task Order Contracting Officer's Representative
U.S. Environmental Protection Agency (EPA)
77 W. Jackson Blvd.
Chicago, Illinois 60604

**Subject: East Water Street Pre-Design Investigation
Data Evaluation Report
East Troy Contaminated Aquifer Site, Troy, Miami County, Ohio
DES Contract No. Exemption 6-PII
Task Order NO.:**

Dear Ms. Kolak:

Tetra Tech, Inc. is submitting the enclosed Data Evaluation Report (DER). The DER provides a summary of field investigation activities and results from the pre-design investigation (PDI) at the East Troy contaminated aquifer (ETCA) site in Troy, Ohio. The PDI was performed to support the remedial design (RD) for the East Water Street soil source area.

If you have any questions regarding this submittal, please call me at (312) 201-7748.

Sincerely,

A handwritten signature in cursive script, appearing to read 'R Mastrolonardo'.

Ray Mastrolonardo
Tetra Tech Project Manager

Enclosure

cc: Lance Haman, EPA Task Order Contracting Officer
Natalie Topp, EPA Contract Specialist
Linda Martin, EPA Project Officer
Mindy Gould, Tetra Tech, Inc. Regional Coordinator

**DESIGN AND ENGINEERING SERVICES
CONTRACT LINE ITEM NUMBER 2 (CLIN2)**

**EAST WATER STREET PRE-DESIGN INVESTIGATION
DATA EVALUATION REPORT
EAST TROY CONTAMINATED AQUIFER SITE
TROY, MIAMI COUNTY, OHIO**

**Prepared for
U.S. Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, IL 60604**

Date Submitted:	July 25, 2022
US EPA Region:	5
Task Order No.:	Exemption 6-PII
Contract No.:	
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ABBREVIATIONS, ACRONYMS, AND SYMBOLS

µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
bgs	Below ground surface
BODR	Basis of design report
CLIN	Contract Line Item Number
CLP	Contract Laboratory Program
cis-DCE	cis-1,2-Dichloroethene
DER	Data evaluation report
DES	Design and Engineering Services
DVR	Data validation report
EM	Electromagnetic
EPA	U.S. Environmental Protection Agency
ETCA	East Troy Contaminated Aquifer
EVS	Earth Volumetric Studio
FFS	Focused feasibility study
FSP	Field sampling plan
GIS	Geographic Information System
GMR	Great Miami River
GNSS	Global navigation satellite system
GPR	Ground penetrating radar
GPS	Global positioning system
IDW	Investigation-derived waste
MCL	Maximum Contaminant Level
MDL	Method detection limit
NPL	National Priorities List
Ohio EPA	Ohio Environmental Protection Agency
OUPS	Ohio Utilities Protection Service
PAL	Project action limit
PCE	Tetrachloroethene
PDI	Pre-design investigation
PID	Photoionization detector

ABBREVIATIONS, ACRONYMS, AND SYMBOLS (continued)

PRP	Potential responsible party
ppm	Part per million
QAPP	Quality assurance project plan
RA	Remedial action
RAO	Remedial Action Objectives
RD	Remedial Design
RI	Remedial investigation
RL	Reporting limit
ROD	Record of Decision
ROW	Right-of-way
SVOC	Semivolatile organic compound
SSD	Sub-slab depressurization
TCE	Trichloroethene
TCLP	Toxicity characteristic leaching procedure
TO	Task order
1,1,2-TCA	1,1,2-Trichloroethane
USCS	Unified Soil Classification System
VI	Vapor intrusion
VOC	Volatile organic compound

**EAST WATER STREET PRE-DESIGN INVESTIGATION
DATA EVALUATION REPORT
EAST TROY CONTAMINATED AQUIFER SITE
TROY, MIAMI COUNTY, OHIO**

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) prepared this data evaluation report (DER) for the East Troy Contaminated Aquifer (ETCA) site in Troy, Miami County, Ohio, under the U.S. Environmental Protection Agency (EPA) Design and Engineering Services (DES) Contract Line Item Number 2 (CLIN2) Contract No. [REDACTED]

[REDACTED] Task Order (TO) No. [REDACTED] For the ETCA site, two separate remedial designs (RD) will be prepared under this TO: one design for contaminated soil excavation and off-site disposal; and one design for sub-slab depressurization (SSD) systems.

Tetra Tech conducted a pre-design investigation (PDI) to obtain information necessary to support the East Water Street soil source area RD. This DER summarizes the East Water Street PDI sampling activities conducted by Tetra Tech and presents results of the investigation. A PDI was not performed for the SSD system RD.

The DER consists of five sections, including this introduction (Section 1.0). Section 2.0 provides a brief description of the ETCA site. Section 3.0 describes the PDI activities that were conducted. Section 4.0 presents PDI sampling results. The references used to prepare the DER are presented in Section 5.0. Figures and tables cited in the DER are presented after the references. Appendix A contains private utility locating reports, Appendix B contains a geophysical survey report, Appendix C contains soil boring logs, Appendix D contains field logbook notes, Appendix E contains the final data validation report (DVR) cover letter, Appendix F contains geotechnical sample results, and Appendix G contains investigation-derived waste (IDW) documentation.

2.0 SITE DESCRIPTION

This section describes the ETCA site. A more detailed description of the site is provided in the remedial investigation (RI) report (SulTRAC 2015), the focused feasibility study (FFS) report (SulTRAC 2017), and the interim action Record of Decision (ROD) (EPA 2018). The ETCA site is located in the City of Troy, Miami County, Ohio (see Figure 1). The site contains contaminated groundwater, which has impaired water quality in the local sand and gravel aquifer. The contamination is present in two separate volatile organic compound (VOC) plumes that appear to have originated from different sources:

The “Residential” plume originates near Walnut Street (adjacent to the former location of Troy One Hour Cleaners) and trends southeastward, parallel to, and eventually comingling with the East Water Street plume (see Figure 2).

The “East Water Street” plume originates in the vicinity of the former Hobart Cabinet Company and trends southeastward (see Figure 2).

The groundwater contamination has also impaired indoor air quality in overlying structures through vapor intrusion (VI). Contaminated soils are present in and adjacent to the suspected source areas of the East Water Street plume. The original sources of the Residential plume no longer exist, and the source area has been extensively reworked and is covered by more recent construction. It is unknown if contaminated soil remains in the vadose zone at that area near the former Troy One Hour Cleaners. Groundwater in the saturated zone in the vicinity of the Residential plume source area contains concentrations of tetrachloroethene (PCE) in parts per million (ppm) levels, with the highest concentrations approximately 20 to 40 feet below the water table, suggesting that back diffusion of PCE from fine-grained materials in the saturated zone may be acting as a secondary, ongoing source of contamination.

The site overlies a prolific sand and gravel aquifer that is considered a sole source aquifer system. The term “sole-source aquifer” is a federal designation used to protect drinking water supplies in areas with few or no alternative sources of drinking water. The City of Troy obtains its public water supply, which serves approximately 25,000 residents, from two wellfields that draw from this aquifer located on the east side of the Great Miami River (GMR). The “West” wellfield is located about 0.75 mile north of the ETCA site. Impacts to the West wellfield originate from other suspected sources and are being addressed as a separate site (West Troy Contaminated Aquifer site). The “East” wellfield is located at the southeastern boundary of the ETCA site and includes five production wells. The chlorinated VOC, cis-1,2-dichloroethene (cis-DCE), has been detected at low concentrations (below the EPA Maximum Contaminant Levels [MCL]) in water samples collected from some of the wells in the East wellfield, most frequently in well P-18. The suspected origin of the cis-DCE is from the breakdown of low concentrations of PCE and trichloroethene (TCE) from an area west of the river, which are then being drawn beneath the GMR through deeper portions of the aquifer near the East wellfield.

The Residential plume is located within a predominantly residential area southwest of East Main Street. This plume contains PCE at concentrations greater than 1,000 micrograms per liter (µg/L) in the source area, with TCE and cis-DCE occasionally detected at lower concentrations. The Residential plume flows

beneath an area of mainly relatively older, single-family residences mixed with a few businesses, churches, and schools.

The East Water Street plume originates behind the former Hobart Cabinet Company (Hobart) building at 301 East Water Street, extends beneath the current Hobart building, and then continues to the southeast beneath and parallel to East Water Street. The area above the plume is a mixed industrial, residential, and institutional use area. PCE, TCE, and cis-DCE are present in this plume. Total VOC concentrations in this plume are generally lower than those detected in the Residential plume. Soil and groundwater contamination have been detected on the Hobart property, with the highest VOC concentrations in soil detected in an apparent source area in the rear of the property in an open area between the building and the GMR.

A second industrial facility is located adjacent to and downgradient of the Hobart facility. This facility was formerly Brown-Bridge Industries (now owned by Kimberly Clark) and is currently being operated by Spinnaker Coatings LLC (Spinnaker), where chlorinated VOCs, including the same VOCs present on the Hobart property, have also been detected in both soil and groundwater.

An RI was completed for the ETCA site in January 2015 (SulTRAC 2015). In 2015, EPA developed an initial set of remedial action objectives (RAOs) and potential remedial alternatives with input from the Ohio Environmental Protection Agency (Ohio EPA). The nature and extent of contamination, site complexity, and constraints caused by the site setting have significant influence on the estimated timeframes required for remediation to achieve the full list of potential RAOs for all areas and exposure pathways. For this reason, EPA elected to conduct an FFS to address a focused group of RAOs and to evaluate remedial alternatives that were directly related to meeting the focused RAOs. The focused RAOs prioritized reduction of exposure risk and reduction of contaminant mass in the source areas of groundwater contamination (SulTRAC 2017).

The FFS led EPA to issue an interim action ROD in 2018 (EPA 2018). For the interim action ROD, EPA specifically addressed: (1) areas of soil contamination that exceed human health risk standards and that coincide with apparent groundwater contaminant source areas; (2) the Residential plume groundwater source area; and (3) potential VI in areas overlying the Residential plume. The proposed VI mitigation area was determined through discussion with Ohio EPA and is based on a combination of past site VI data, the groundwater contaminant plume boundaries and concentrations, the conceptual targeted groundwater treatment area identified in the FFS, and designated “buffer” zones extending beyond the identified plume boundaries. The 2018 ROD selected Soil Alternative S-2 to address the contaminated

soil areas. The ROD specified soil cleanup levels for PCE and TCE of 44 and 34 micrograms per kilogram ($\mu\text{g}/\text{kg}$), respectively; these levels were based on reduction of potential leaching of contaminants to groundwater and protection of human health through reduction of direct contact risk. Figure 3 shows the proposed excavation areas for Alternative S-2, as depicted in the 2017 FFS and 2018 ROD. Soil contamination at the Spinnaker property is being addressed by the potentially responsible party (PRP); therefore, RD activities at Spinnaker are not within the scope of this RD.

For the ETCA site, two separate designs will be prepared under this TO: one design for East Water Street contaminated soil excavation and off-site disposal; and one design for installation of SSD systems. The PDI was conducted at the East Water Street soil source area and was not associated with the SSD system RD. Thus, data collected during the PDI and presented in this DER will be used to support the East Water Street soil excavation RD.

3.0 SUMMARY OF PDI FIELD ACTIVITIES

PDI activities were generally conducted in accordance with the approved site-specific quality assurance project plan (QAPP) (Tetra Tech 2021a), waste management plan (Tetra Tech 2021b), data management plan (Tetra Tech 2021c), and QAPP Worksheet 18 Amendment (Tetra Tech 2022a). In instances where field activities deviated from the approved site-specific plans because of field conditions, those deviations are discussed below in the relevant sections. The PDI included a site reconnaissance trip to mark sampling locations and clear utilities prior to drilling, a geophysical survey, two soil sampling events, and disposal of IDW. Prior to each sampling event, the Ohio Utilities Protection Service (OUPS) was contacted and public utilities were cleared and marked. A private utilities location service was also used to clear on-property service lines, which are not typically addressed by OUPS. All drilling locations were identified using a global positioning system (GPS). PDI activities are described below and PDI results are discussed in Section 4.0.

3.1 Pre-Sampling Activities

Pre-sampling activities were conducted prior to drilling and soil sampling. Pre-sampling activities included a site reconnaissance trip, including private utility locating, and a geophysical survey. Each of these activities is discussed below.

3.1.1 Site Reconnaissance and Utility Locating

On November 17, 2021, soil boring locations were marked using GPS. Before field activities began, Tetra Tech loaded the Geographic Information System (GIS) layers into the Esri Field Maps application for reference by the field team while on site. Tetra Tech used a hand-held Global Navigation Satellite

System (GNSS) Bluetooth GPS unit with sub-meter accuracy. The Bluetooth GPS unit was utilized with the Field Maps application running on a tablet computer. GPS data were not loaded into the Scribe database (polyline or polygon data) but were included in the site geodatabase. Figure 4 shows the PDI soil boring locations, which differ slightly from the proposed locations presented in the QAPP. Specifically, grid rows were adjusted (Row 1 and Row A) to keep all borings (A1, A2, A3, A4 and A5) on Hobart property, due to the proximity of the railroad right-of-way (ROW) and an unknown line buried 2 to 3 feet below ground surface (bgs) running parallel to the railroad tracks.

On November 18, 2021, Tetra Tech's private utility locating subcontractor, Mason Private Locating LLC (Mason), used ground-penetrating radar (GPR) to check for the presence of buried utilities or objects at the proposed drilling locations. To allow for possible off-sets during drilling, Mason scanned the entire grid area instead of individual boring locations. Mason conducted GPR scanning and marked anomalies that were identified. The maximum depth of investigation was approximately 10 feet bgs. On April 13, 2022, Mason also scanned two separate areas prior to the additional soil sampling event. These areas were also scanned using GPR in the same manner as the November 2021 utility locating event. Appendix A presents the Mason utility locating reports.

3.1.2 Geophysical Survey

On November 23, 2021, Tetra Tech's subcontractor, GeoSearches Inc., conducted a subsurface geophysical survey to evaluate the potential presence of unknown buried objects such as fill, buried drums or tanks, and to clear private utilities. The subsurface geophysical survey was performed in the area shown in Figure 4. The subsurface geophysical survey was performed using GPR and multi-frequency electromagnetic (EM) induction instrumentation. In summary, a series of GPR and EM data lines were acquired at the site, with maximum depth of investigation ranging from 0 to 20 feet bgs. The survey was conducted over one data grid, consisting of twelve data lines, with data spacing at 5-foot intervals running West to East covering 22,000 square feet in total. Utilities and geophysical anomalies were marked, mapped with a GPS unit by Geosearches, and recorded by Tetra Tech in the field logbook. Appendix B provides additional details regarding the geophysical survey.

3.2 Soil Sampling

From November 29 through December 1, 2021, soil borings were drilled and soil samples were collected to further delineate the extent of PCE and TCE in soil and to obtain waste characterization and geotechnical information to be used in the design. On April 14, 2022, additional soil borings were drilled and soil samples were collected to supplement PCE and TCE delineation. The different types of sampling

activities are described below. Soil boring logs and field logbook notes are presented in Appendix C and D, respectively.

3.2.1 Contaminant Delineation Sample Collection

Soil borings were advanced by Tetra Tech's subcontractor, Envirocore Inc., using a direct-push (Geoprobe) rig. Soil borings were advanced at the locations marked and cleared, as discussed in Section 3.1.1 (see Figure 4). During drilling, soil cores were obtained using the Geoprobe dual tube sampling system. Each boring was continuously logged from the ground surface to the termination depth. The soil was visually inspected and logged using the Unified Soil Classification System (USCS). Areas containing fill and zones of staining, discoloration, or odor were also noted on the logs. Appendix C presents soil boring logs. At each boring location, samples were collected at four depths, as specified in the EPA-approved QAPP (Tetra Tech 2021a). Given the close proximity of the borings to each other, not all soil borings were advanced to the water table since the purpose was to gain a general understanding of the depth to groundwater in the investigation area. Table 1 summarizes soil boring completion depths, soil sample depths, and boring locations and depths where groundwater was encountered. Soils in the area between the Hobart structure and the Great Miami River have been extensively reworked and filled since the 19th century through construction, demolition and rebuilding of industrial structures, rail lines, and the adjacent levee. At five locations, refusal was encountered in the shallow subsurface requiring off-set and redrilling of borings. All borings were advanced to the planned completion depth with the exception of boring C2. At boring C2, two off-set borings were attempted; however, refusal was encountered at 9 feet bgs at each off-set location. All 31 proposed borings were completed during the PDI and samples were collected at all four proposed depth intervals (0-2 feet, 4-6 feet, 8-10 feet, and 12-14 feet bgs) at each location using disposable equipment (i.e. coring tool samplers), with the exception of borings C2 and F2. At boring C2, the sample from the 12-14-foot interval was not collected due to refusal at 9 feet bgs. At boring F2, the sample from the 12-14-foot interval was not collected because crushed bricks limited sample recovery.

Results of the November/December 2021 sampling event showed that PCE and/or TCE were present at concentrations above site cleanup levels (44 and 34 µg/kg, respectively) at some of the perimeter soil boring locations (B5, G2, H1, and H2). Therefore, additional soil borings were necessary to further delineate PCE and TCE above cleanup levels in these areas.

On April 14, 2022, soil borings B6, B7, G3, H3, I1, I2, and I3 were drilled, and soil samples were collected to further delineate the extent of PCE and TCE (see Figure 4). All seven additional borings (or adjacent off-set borings) were advanced to the planned completion depths and samples were collected at

all planned depth intervals (0-2 feet, 4-6 feet, 8-10 feet, and 12-14 feet bgs). At location B7, refusal was encountered at a depth of 12 feet bgs. At this location, a second boring was offset about 3 feet toward B6 and advanced to its completion depth. At location I3, a sample was not recovered from the 4-8-foot bgs interval; therefore, a second boring was offset about 3 feet north and advanced to obtain a sample from this interval.

Generalized geologic cross sections were prepared based on soil boring logs to provide an overall indication of the subsurface soils present. Figure 5 shows the cross-section location. Cross sections were generated using soil boring logs from Grid Rows 3, 5, B and E (see Figure 5). These four cross sections were chosen to represent soil that would be encountered during remediation, particularly conditions near the Hobart building and in the main portion of the area to be excavated during remediation. The observed soil conditions were consistent with the known past disturbance of the PDI area; fill is present at varying depths throughout the area. Therefore, soil types observed during the PDI are non-uniform with a high degree of heterogeneity and correlation of soil types from one boring to another is not always possible. Figures 6 through 9 show generalized cross sections, which are briefly described below.

- The Row 3 cross section includes soil borings A3, B3, C3, D3, E3 (west of the loading dock and Hobart building) and G3, H3, and I3 (east of the loading dock). In general, fill or sand is present at or near the surface with more fill encountered in E3, G3, and H3. These surficial soils are underlain by silty clay or clay of varying thickness present in all borings in this cross section. The silty clay or clay is underlain by sand or sand and gravel.
- The Row 5 cross section includes soil borings A5, B5, C5, D5 and E5 (west of the loading dock and Hobart building). In general, fill or sand is present at or near the surface with more fill observed at A5, B5 and E5. These surficial soils are underlain by sand and silty sand, with coarser gravelly sand observed at E5. The deeper silty clay and clay layer observed in Row 3 borings described above was not observed in Row 5 borings.
- The Row B cross section includes soil borings B1 through B7 (west of the loading dock and Hobart building, and parallel to the railroad tracks). In general, fill or sand is present at or near the surface. These surficial soils are underlain by silty sand and gravelly sand. However, clay was observed shallower (below the fill and above the sand) in B6 and B7, deeper (below the sand) in B1, B2, and B3, and was absent in B4 and B5.
- The Row E cross section includes soil borings E1 thru E5 (west of the loading dock). In general, fill or sand is present at or near the surface. These surficial soils are underlain by clay or silty

clay. However, gravelly sand was observed shallower (below the fill) in E5 and sand was observed deeper (below the clay in E1 and E2).

All soil samples collected to evaluate the extent of soil contamination during both sampling events were shipped to the Contract Laboratory Program (CLP) laboratory for PCE and TCE analysis using EPA Method 5035 and 8260.

3.2.2 Waste Characterization Sample Collection

Tetra Tech collected waste characterization samples to gather information needed for the RD to refine the estimated volume of soil to be disposed of as hazardous or nonhazardous waste. Soil borings were advanced by Tetra Tech's subcontractor, Envirocore, using a direct-push rig (Geoprobe) and waste characterization samples were collected at three locations, as shown on Figure 4. During drilling, soil cores were obtained using a dual tube sampling system. Each boring was continuously logged from the ground surface to the termination depth using the same procedures described above in Section 3.2.1. Appendix C includes soil boring logs. Tetra Tech collected two waste characterization samples at each of the three planned locations for a total of six samples. At each location, one sample was collected from granular (sandy) soil and one sample was collected from cohesive (clayey) soil. Soil samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP semi-volatile organic compounds (SVOC), TCLP metals, and pH by CLP and for reactive cyanide, and reactive sulfide by ALS Environmental, as shown on Table 2.

3.2.3 Geotechnical Sample Collection

Geotechnical borings were advanced by Tetra Tech's subcontractor, Envirocore, using hollow-stem augers at the three locations shown in Figure 4. At each boring location, blow counts and soil recovery were recorded in the field (see Table 3) and soil was continuously logged from the ground surface to the water table. The soil was visually inspected and logged as previously described above (see Appendix C). Two geotechnical samples were collected at GT1 and GT3 and one sample was collected at GT2 for a total of five samples. At GT1 and GT3, one sample was collected from granular (sandy) soil and one sample was collected from cohesive (clayey) soil. At GT2, sufficient sample volume could not be obtained due to the presence of fill; therefore, only one sample was collected from cohesive (clayey) soil. Granular soil samples were collected in 5-gallon buckets using a combination of split spoons and drill cuttings to obtain a sufficient volume. Cohesive soil samples were obtained as undisturbed samples following ASTM methods using thin-walled Shelby tube samplers advanced with a continuous push, and sealed upon recovery. Additionally, given the limited soil recovery at some locations, all planned

geotechnical analyses were not conducted on the five samples collected. Geotechnical samples were analyzed by Bowser-Morner, Inc. in Dayton, Ohio for the suite of parameters shown on Table 4.

3.3 IDW Sampling and Management

On December 1, 2021, Tetra Tech collected a composite soil sample from one drum containing soil cuttings to determine the proper disposal of IDW. The IDW (soil) sample was analyzed by the same laboratories and for the same suite of waste characterization parameters described in Section 3.2.2 (see Table 2). On December 2, 2021, the drummed soil was moved by the drilling subcontractor, Envirocore, from the East Water Street investigation area to the City of Troy waste water treatment plant and staged in a secure area. No liquid IDW requiring management or characterization was generated during the PDI. All IDW was managed in accordance with the Office of Solid Waste and Emergency Response (OSWER) Directive 9345.3-03FS, January 15, 1992.

3.4 Structural Stability Analysis

On April 13, 2022, a Tetra Tech engineer met with our local geotechnical engineering subcontractor (Bowser-Morner) to perform an initial site visit. During this site visit, a preliminary visual inspection was made of the planned excavation area and its proximity to the GMR and Hobart building structure. The field team also spoke to the current building owner about future excavation to be performed next to the Hobart building. Additionally, the field team made preliminary observations with respect to other options such as soil vapor extraction (SVE) in lieu of excavating so close to the building. If SVE was to be considered later during the RD, it is believed that the electrical system in the building will likely support a dedicated circuit for a small SVE system.

4.0 RESULTS

The following sections summarize PDI results. All soil samples collected for PCE and TCE delineation were shipped to a CLP laboratory for analysis. All waste characterization samples were shipped to a CLP laboratory for analysis, except for reactive cyanide and reactive sulfide, which were shipped to ALS Environmental for analysis. All geotechnical samples were analyzed by Bowser-Morner. Tetra Tech submitted all analytical results obtained during the PDI (also including waste characterization and geotechnical results) to EPA in a DVR dated June 9, 2022 (Tetra Tech, 2022b). The DVR was subsequently forwarded by EPA to Ohio EPA. Appendix E includes the cover letter for the DVR. Soil samples collected during the additional sampling event on April 14, 2022, were shipped that day to the laboratory via FedEx. However, because of a delay with the FedEx delivery, samples did not arrive to the laboratory until Monday April 18, 2022. As a result, samples were received by the laboratory at a temperature exceeding the required temperature of 4 degrees Celsius specified in the QAPP. Therefore,

all soil sample results from the additional sampling event were qualified as estimated values as documented in the DVR (Tetra Tech 2022b). The discussion below provides a summary of the results; the figures and tables also present the results.

4.1 Pre-Sampling Activity Results

Appendix A includes the private utility reports provided by Mason. Private utility locating was conducted primarily as a health and safety measure to identify the presence of underground utilities that could interfere with drilling and sampling operations. Information obtained from the private utility locating effort was also used to supplement the information obtained during the geophysical survey. Other than utilities (such as storm sewer and fiber optic lines), the majority of the area appeared to contain fill. Additionally, an old water tank footing and former rail spur and ballast areas were identified as anomalies. Private utility locating was conducted again on April 13, 2022, to check for the presence of buried utilities prior to additional soil sampling activities. No utilities or unusual anomalies were identified in the area of investigation for the second clearing event.

Appendix B includes the geophysical survey report prepared by Geosearches Inc. The EM survey detected several possible metal reflections at 3-8 feet bgs. Both the GPR and EM processed data established anomalies to depths from 1 to 8 feet bgs. The surveyed area had a few areas of fast reflective material at approximately 3 to 8 feet bgs, suggesting buried metallic objects are present throughout the investigation area. The geophysical survey also identified unknown utility lines in the northwestern part of the investigation area that run parallel to the railroad tracks (located to the northwest of the investigation area). These were annotated in the geophysical report as unknown lines at a depth of about 2 to 3 feet bgs. A storm sewer line was identified at 2 feet bgs and runs parallel to the north façade of the Hobart building.

4.2 Soil Sampling Results

Results for soil samples collected to further delineate the extent of PCE and TCE and to obtain waste characterization and geotechnical information to be used in the design are presented below.

4.2.1 Contaminant Delineation Sample Results

Soil sample results for PCE and TCE were compared with the Project Action Limits (PAL) in the QAPP. The PALs in the QAPP were based on the ROD cleanup levels for PCE and TCE of 44 µg/kg and 34 µg/kg, respectively. Method detection limits (MDL) for soil were generally within the limits for the method approved in the QAPP (Tetra Tech 2021a). All the CLP data were qualified based on the

validation by ESAT and were deemed useable. However, during the November/December 2021 sampling event, the CLP laboratory reported results using both low and medium-level analysis for some of the investigative samples. Thus, for this sampling event, Tetra Tech conducted another data verification step to select the appropriate, most-conservative analyte concentration when two values (one from low-level analysis and one from medium-level analysis) were reported for a given soil sample. Table 5 summarizes PCE and TCE analytical results. For the November/December 2021 sampling event, most of the samples were analyzed by CLP using both low- and medium-level analytical methods. Results were selected on a case-by-case basis from either the low- or medium-level method as the “representative” result for a given sample. The representative results chosen are bolded and the rationale for selecting these results is presented in the notes on Table 5. Analytes exceeding the PALs (ROD cleanup levels) are highlighted in Table 5 and summarized below.

- The highest detected concentration of PCE was 180,000 µg/kg in D3 at 4-6 feet bgs.
- By depth, PCE exceedances occurred in 19 of 38 samples at 0-2 feet bgs, or 50%; in 14 of 38 samples at 4-6 feet bgs, or 37%; 12 of 38 samples at 8-10 feet bgs, or 32%; and 6 of 37 samples at 12-14 feet bgs, or 16%.
- The highest detected concentration of TCE was 380,000 µg/kg in D3 at 4-6 feet bgs.
- By depth, TCE exceedances occurred in 18 of 38 samples at 0-2 feet bgs, or 47%; in 16 of 38 samples at 4-6 feet bgs, or 42%; 6 of 38 samples at 8-10 feet bgs, or 16%; and 1 of 37 samples at 12-14 feet bgs, or 2.7%.
- With the exception of D1, F1, H2, H3 and I1, all other locations had concurrent exceedances for TCE and PCE for certain intervals.

Tetra Tech conducted soil sampling during the PDI to supplement the data obtained during the RI and further inform the RD by refining the estimated areas to be excavated. Results for each depth interval sampled (0-2, 4-6, 8-10, and 12-14 feet bgs) are shown on Figures 10 through 13, respectively. Results exceeding the site cleanup levels of 44 µg/kg for PCE and 34 µg/kg for TCE are highlighted on the figures and discussed below. Areas where the extent of PCE and TCE was not delineated relative to their site cleanup levels are referred to in the discussion below as areas of uncertainty.

Figure 10 shows the extent of PCE and TCE exceeding site cleanup levels in the 0 to 2-foot sampling interval. At this depth, the extent of soil exceeding cleanup levels is defined with the following areas of

uncertainty: (1) the area northwest of borings A4 and A5, between these borings and the railroad tracks in the Clay Street right-of-way; and (2) the area northeast of borings F1, G1, H1, and I1, between these borings and the levee adjacent to the GMR.

Figure 11 shows the extent of PCE and TCE exceeding site cleanup levels in the 4 to 6-foot sampling interval. At this depth, the extent of soil exceeding cleanup levels is defined with the following areas of uncertainty: (1) the area northwest of borings A4 and A5, between these borings and the railroad tracks in the Clay Street right-of-way; (2) the area northeast of boring F1, between this boring and the levee adjacent to the GMR; and (3) the area east-southeast of borings H2 and H3.

Figure 12 shows the extent of PCE and TCE exceeding site cleanup levels in the 8 to 10-foot sampling interval. At this depth, the extent of soil exceeding cleanup levels is defined with the following areas of uncertainty: (1) the area northeast of boring D1, between this boring and the levee adjacent to the GMR; and (2) the area south of boring H3. Although PCE exceeded 44 µg/kg at 8 to 10 feet bgs at boring D1, PCE was below 44 µg/kg at all other depths sampled at this location (0-2, 4-6, and 12-14 feet bgs).

Figure 13 shows the extent of PCE and TCE exceeding site cleanup levels in the 12 to 14-foot sampling interval. At this depth, the extent of soil exceeding cleanup levels is defined with the following area of uncertainty: (1) the area south of boring H3.

As shown on Figures 10 through 13 collectively, three general areas of uncertainty exist with respect to excavation boundaries.

- The first area of uncertainty is northwest of borings A4 and A5 with exceedances in the 0 to 2- and 4 to 6-foot samples but not in the deeper samples. The depth of exceedances indicates that excavation would likely not extend much deeper than 6 feet bgs in this area. Additionally, the excavation limits to the northwest are physically bound by the proximity of the railroad tracks.
- The second area of uncertainty is in the northeastern portion of the PDI sampling grid (adjacent to the GMR levee) and shows exceedances in the 0 to 2-foot samples indicating that impacted soil is present primarily near the ground surface. The exceptions to these shallow exceedances are at F1 (where the 2 to 4-foot sample also exceeded cleanup levels) and D1 (where only the 8 to 10-foot sample exceeded cleanup levels).
- The third area of uncertainty is the area south of boring H3. At this location, the 0 to 2-foot sample did not exceed cleanup levels; however, the three deeper samples did.

Additionally, Figures 10 through 13 show that the locations exceeding cleanup levels (and thus the size of the excavation area) are fairly similar at 0-2 feet and 4-6 feet bgs. The excavation area then decreases with depth at 8-10 feet bgs and further decreases at 12-14 feet bgs until the excavation area is considerably smaller at 12-14 feet bgs than it is at 0-2 feet bgs.

The primary objective of the PDI was to obtain data to support the RD. Specifically, data obtained was used to further delineate the area and volume of soil exceeding site cleanup levels of 44 and 33 $\mu\text{g}/\text{k}$ for PCE and TCE, respectively. To further illustrate the area exceeding site cleanup levels, soil results were imported into 3-dimensional visualization (3DVA) software (see Figures 14 through 19). Earth Volumetric Studio (EVS) developed by C Tech Development Corporation was the software used for this purpose. For kriging purposes in soil borings where the deepest soil sample was still above the site cleanup levels, the elevated value was applied to the water table surface based on the conservative assumption that the soil contamination continued down to the water table. Figures 14 through 19 are discussed below:

- Figures 14 and 16 present plan views and oblique views showing soil sampling results for TCE and PCE, respectively. Each sampling interval is color coded corresponding to concentrations shown in the color scale.
- Figures 15 and 17 show the estimated extent of soil exceeding site cleanup levels for TCE and PCE, respectively. Figure 18 shows the estimated extent of soil exceeding site cleanup levels for TCE and PCE combined. The EVS software generated three dimensional images of soil exceeding cleanup levels by interpolating results between data points. Interpolation of data points also resulted in shading areas beneath the Hobart building footprint. Therefore, because soil samples were not collected under the building, the presence and extent of soil contamination shown beneath the building was generated by the software kriging across the area based on elevated sample results on either side of the building.
- Figure 17 shows the estimated extent of PCE above its cleanup level in an area south of boring H3. The extent of soil containing PCE above the site cleanup level in this area was estimated using the software to interpolate sampling results. Therefore, because soil samples were not collected south of borings G3, H3, and I3, the presence and extent of soil contamination shown south of H3 was generated by the software kriging across this area based on elevated sample results on the other side of the building.

- Figure 19 shows the area and volume of soil containing PCE or TCE above site cleanup levels that is not under the Hobart building. For estimating the area and volume of soil containing PCE or TCE not under the building, the lateral excavation limits were truncated immediately adjacent to the Hobart building boundary (see Figure 19). This was done because any potentially contaminated soil present beneath the building structure would not be accessible by excavation. Additionally, as shown on Figure 19, the lateral excavation limits were also truncated adjacent to the railroad tracks on Clay Street (to the northwest of the Hobart building) and beyond the top of the levee to the northeast (toward the GMR).

Based on this evaluation, it is estimated that approximately 6,300 cubic yards of soil contain PCE or TCE at concentrations exceeding cleanup levels (see Figure 18). This estimated volume includes potentially impacted soil beneath the Hobart building. An estimated 4,550 cubic yards of soil exceeding cleanup levels is present outside of the Hobart building footprint (see Figure 19). However, removal of soil above cleanup levels outside of the Hobart building footprint will likely result in a volume greater than 4,550 cubic yards of soil to account for sloping and overall geometry of the excavation area. Additional details and assumptions regarding soil excavation will be provided in the RD.

Based on requirements set forth in the ROD, the QAPP specified that soil samples collected during the PDI were to be analyzed for PCE and TCE (Tetra Tech 2021a). The CLP laboratories analyzed soil samples for the full suite of Target Compound List (TCL) VOCs and reported full TCL VOC results. As shown in Table 6, VOCs other than PCE and TCE were detected in some soil samples (PCE and TCE results presented in Table 5 are also included in Table 6). For the November/December 2021 sampling event, most of the samples were analyzed by CLP using both low- and medium-level analytical methods. Results were selected on a case-by-case basis from either the low- or medium-level method as the “representative” result for a given sample. The representative results chosen are bolded and the rationale for selecting these results is presented in the notes on Table 6. Table 6 also shows that the concentrations of detected VOCs, other than PCE and TCE, were almost entirely below residential soil direct contact regional screening levels (RSL) and all below industrial soil direct contact RSLs. VOCs, other than PCE and TCE, that exceeded residential soil RSLs included chloroform and 1,1,2-trichloroethane (1,1,2-TCA). In the few instances where chloroform and 1,1,2-TCA exceeded residential soil RSLs, those exceedances are collocated with exceedances of PCE or TCE with one exception. At boring H2, the 0-2 sample exceeded the residential soil RSL, but PCE and TCE did not exceed site cleanup levels. However, the 4-6 sample at boring H2 exceeded the TCE cleanup level, indicating that the shallower soil (0-2 feet bgs) would also be excavated to address the soil at 4-6 feet bgs. Thus, excavation of soil impacted by PCE or

TCE would also address other VOCs exceeding RSLs. Therefore, individual exceedances of other VOCs detected in PDI soil samples are not discussed further in this report for the following reasons:

- Site cleanup levels in the ROD are established only for PCE and TCE
- All other VOCs detected in PDI soil samples exceeding RSLs are collocated with exceedances of PCE or TCE with the exception of one sample (0-2 feet bgs at boring H2)
- RI groundwater sampling results (SulTRAC 2015) showed that VOCs other than PCE and TCE were not detected above site screening levels in samples collected from three monitoring wells on the Hobart property in proximity to the excavation area (EPA-122S, EPA-110S, and OEPA-13) and two soil borings drilled through the floor slab inside the Hobart garage structure (SB3324 and SB3325); Figure 4 shows monitoring well locations.

4.2.2 Waste Characterization Sample Results

Waste characterization samples were collected at two depths from three locations for a total of six samples. At each location, one sample was collected from granular (sandy) soil and one sample was collected from cohesive (clayey) soil as previously described in Section 3.2.2. Analytical results for the six soil samples analyzed for waste characterization parameters, including TCLP VOCs, TCLP SVOCs, TCLP metals, pH, reactive cyanide, and reactive sulfide are presented in Table 7. All positive detections (shown in bold-faced type on Table 7) were below the EPA regulatory levels.

Waste characterization sample results indicate that the soil is not a characteristically hazardous waste based on PDI sample results. However, TCE and PCE were detected at higher concentrations in some of the delineation samples (highest concentrations detected in the 4-6-foot sample at boring D3, suggesting that the RD should allow for further waste characterization with contingency for potentially managing characteristically hazardous waste separately if encountered when sampling during remediation.

4.2.3 Geotechnical Sample Results

Geotechnical results are presented in Appendix F and summarized in Table 8. Much of the PDI area contains fill and reworked soil. There is considerable variability in soil composition as indicated in the soil boring logs and by the range of USCS classifications assigned to the geotechnical samples (ranging from silty/clayey sand to lean/fat clay).

4.3 IDW Sample Results

As described in Section 3.3, a composite soil sample was collected from one drum of soil cuttings to determine the proper disposal of IDW. Per discussions with the disposal facility, Environmental Enterprises, Inc (EEI), the sample was analyzed for TCLP metals, TCLP VOCs, TCLP SVOCs, reactive cyanide, reactive sulfide, and pH. IDW sample results are summarized with the other waste characterization sample results in Table 7. Table 7 shows all results were below the EPA regulatory levels.

The IDW analytical results were provided to EEI for the waste profile. On May 4, 2022, one drum of soil was picked up and transported from the Troy waste water treatment plant to EEI's facility in Cincinnati, Ohio and disposed of as non-regulated soil in accordance with federal, state, and local regulations. Appendix G presents the IDW manifest information.

4.4 Depth to Groundwater Assessment

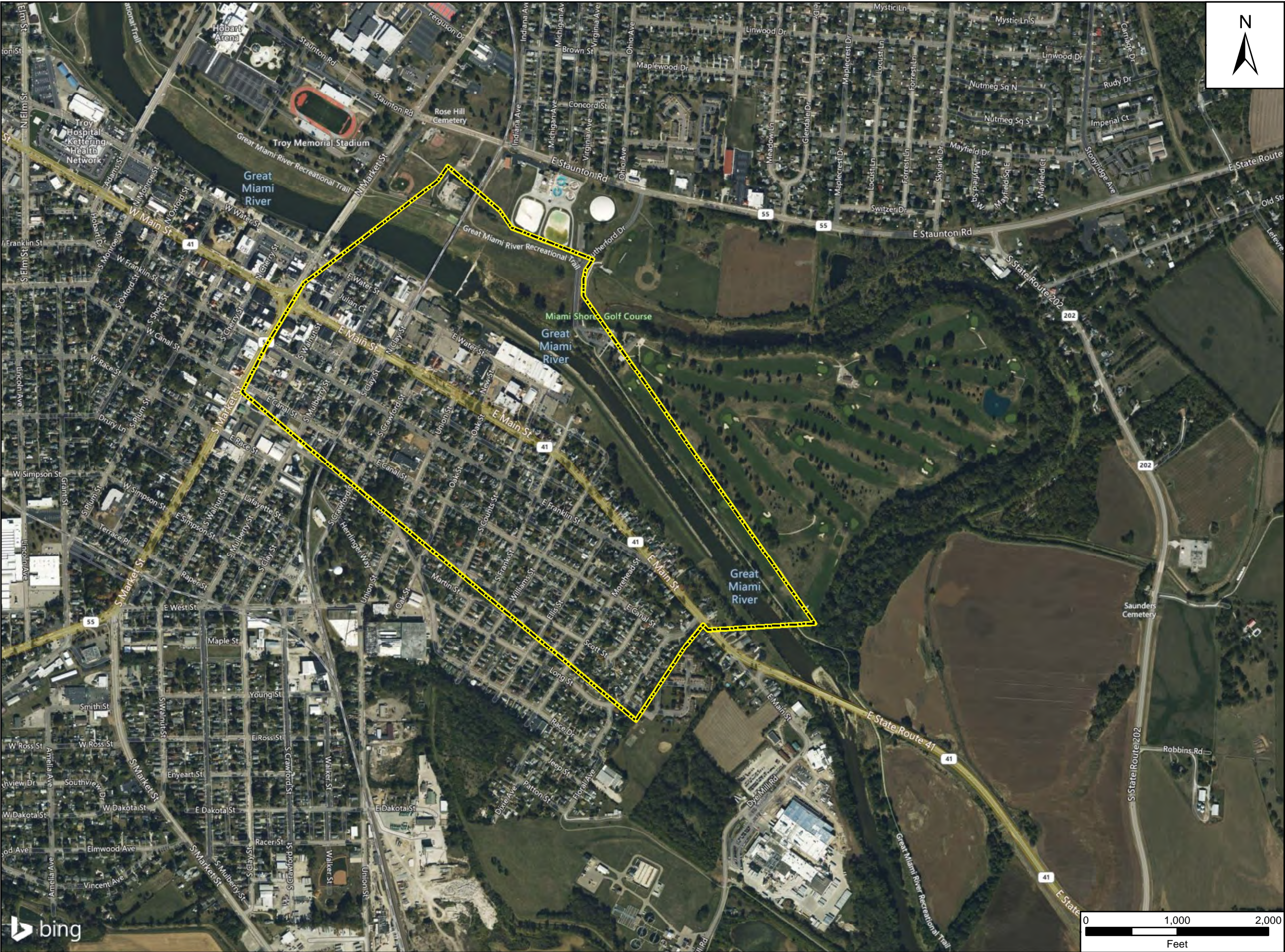
The sampling design in the QAPP called for advancing each soil boring until groundwater was encountered. The purpose of advancing each boring to groundwater was to obtain a general understanding of the depth to groundwater and vadose zone thickness to be used in the RD. Because of the close spatial proximity of the soil borings to each other and temporal variability influencing groundwater depths, not every boring was advanced to groundwater during the PDI. Therefore, 14 of the 38 soil boring borings were advanced until groundwater was encountered to provide an overall general assessment. Additionally, water levels were measured in three monitoring wells installed during the RI (EPA-122S, EPA-110S, and OEPA-13) to supplement depth to groundwater information. Table 9 summarizes groundwater depths in soil borings and monitoring wells. Also, as shown in Table 9, the shallowest depth to groundwater ranged from about 12 to 14 feet bgs in soil borings advanced in the general area between the levee and the loading dock/garage structure. The greatest depth to groundwater ranged from about 18 to 20 feet bgs in soil borings advanced in the northwestern portion of the property (adjacent to Clay Street/railroad tracks) and in borings between the levee and the main building structure. Overall, the depth to groundwater encountered during the PDI ranged from about 12 to 20 feet bgs. Although the depth to groundwater varied from one location to another, groundwater was generally encountered at an elevation of approximately 814 feet above mean sea level (amsl). The variation in reported depths to groundwater is a result of the variable surface topography across the PDI area. At boring locations E1 and E2, shallower groundwater depths (and thus higher elevations) were observed. Groundwater encountered at these two locations may be a result of perched groundwater rather than the actual water table.

5.0 REFERENCES

- SulTRAC. 2015. "Final Remedial Investigation (RI) Report and Risk Assessment for East Troy Contaminated Aquifer Site. Troy, Miami County, Ohio". January 21.
- SulTRAC. 2017. "Final Focused Feasibility Study Report for East Troy Contaminated Aquifer Site, Troy, Miami County, Ohio". August 31.
- Tetra Tech. 2021a. "Quality Assurance Project Plan for East Troy Contaminated Aquifer Site. Troy, Miami County, Ohio" Revision 1. September 9.
- Tetra Tech. 2021b. "Waste Management Plan for Remedial Design for East Troy Contaminated Aquifer Site. Troy, Miami County, Ohio". Final. September 9.
- Tetra Tech. 2021c. "Data Management Plan for East Troy Contaminated Aquifer Site. Troy, Miami County, Ohio". Final. September 9.
- Tetra Tech. 2022a. "Quality Assurance Project Plan for East Troy Contaminated Aquifer Site. Troy, Miami County, Ohio" Revision 1, Worksheet #18 Addendum. March 24
- Tetra Tech. 2022b. "Data Validation Report for East Water Street Pre-Design Investigation, East Troy Contaminated Aquifer Site. June 9.
- U.S. Environmental Protection Agency (EPA). 2018. *East Troy Contaminated Aquifer Superfund Site, Record of Decision for Source Area Cleanup, Troy, Miami County, Ohio*. September.

FIGURES

- Figure 1: Site Location Map
- Figure 2: ETCA Site Features
- Figure 3: Soil Alternative S-2 Proposed Excavation Areas
- Figure 4: Pre-Design Investigation Sampling Locations
- Figure 5: Cross Section Locations
- Figure 6: Subsurface Diagram Row 3
- Figure 7: Subsurface Diagram Row 5
- Figure 8: Subsurface Diagram Row B
- Figure 9: Subsurface Diagram Row E
- Figure 10: Soil Sampling Results: 0-2 Feet
- Figure 11: Soil Sampling Results: 4-6 Feet
- Figure 12: Soil Sampling Results: 8-10 Feet
- Figure 13: Soil Sampling Results: 12-14 Feet
- Figure 14: TCE Soil Sample Results
- Figure 15: TCE Soil Contamination Greater Than and Equal to Site Cleanup Level
- Figure 16: PCE Soil Sample Results
- Figure 17: PCE Soil Contamination Greater Than and Equal to Site Cleanup Level
- Figure 18: PCE and TCE Soil Contamination Greater Than and Equal to Site Cleanup Level
- Figure 19: Adjusted PCE and TCE Soil Contamination Greater Than and Equal to Site Cleanup Level



Legend

Remedial Investigation Study Area

Source: Bing Maps Hybrid 2016

Reference Map

Ohio

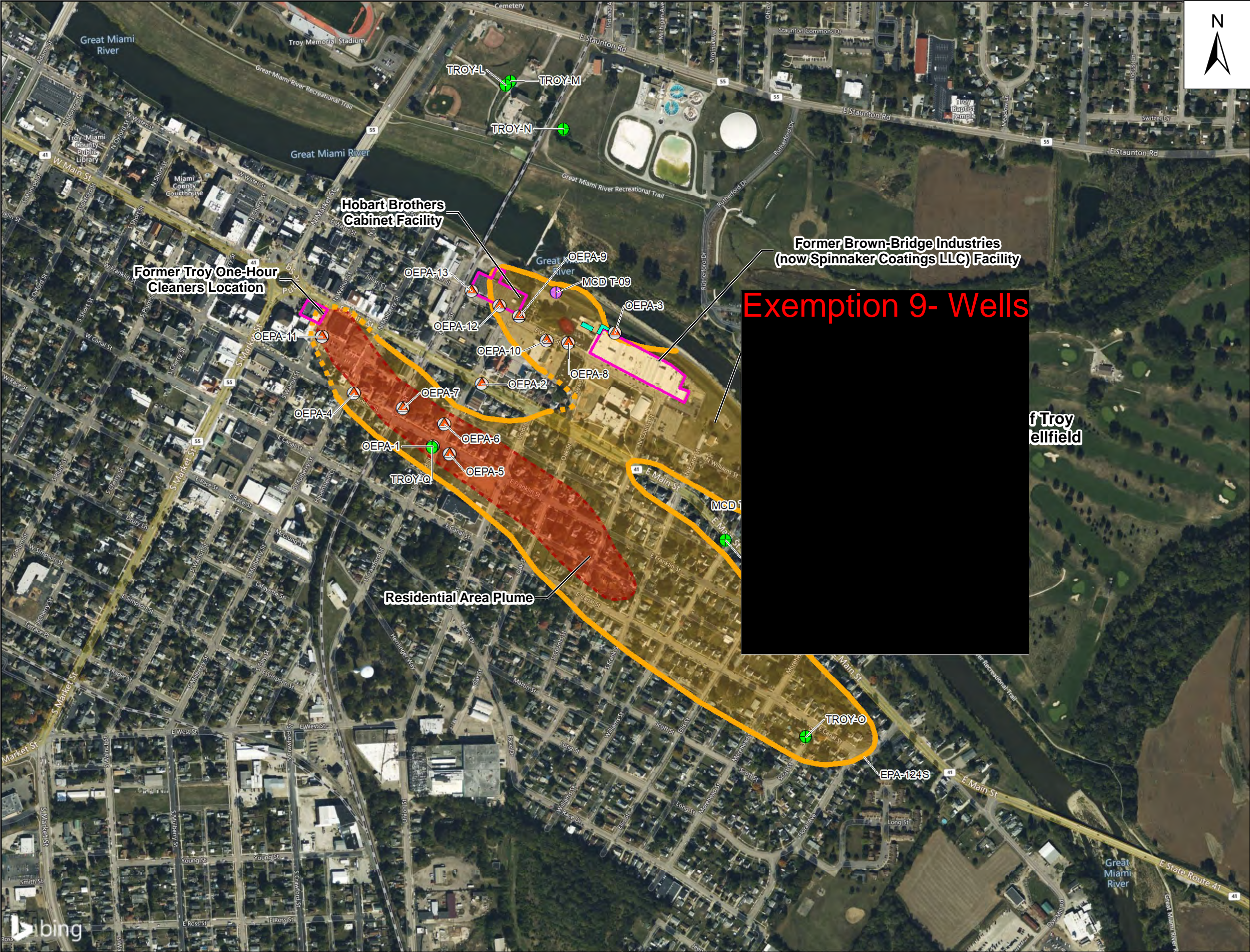
Site Location

EAST TROY CONTAMINATED AQUIFER SITE

TROY, OHIO

FIGURE 1

SITE LOCATION MAP



Legend

- Ohio EPA Well
- Troy Monitoring Well
- MCD Well
- Troy Production Well
- Approximate Areas of 1995 Soil Excavations
- Feature Boundary
- Total Chlorinated VOCs >100 µg/L (ppb) Plume Area
- Total Chlorinated VOCs <100 µg/L (ppb) Plume Area

Notes:

EPA - Environmental Protection Agency
MCD - Miami Conservation District
OEPA - Ohio Environmental Protection Agency
P - City of Troy Supply Well
ppb - Parts per billion
S - Shallow
T - Miami Conservancy District Monitoring Well
VOC - Volatile Organic Compound
µg/L - Micrograms per liter

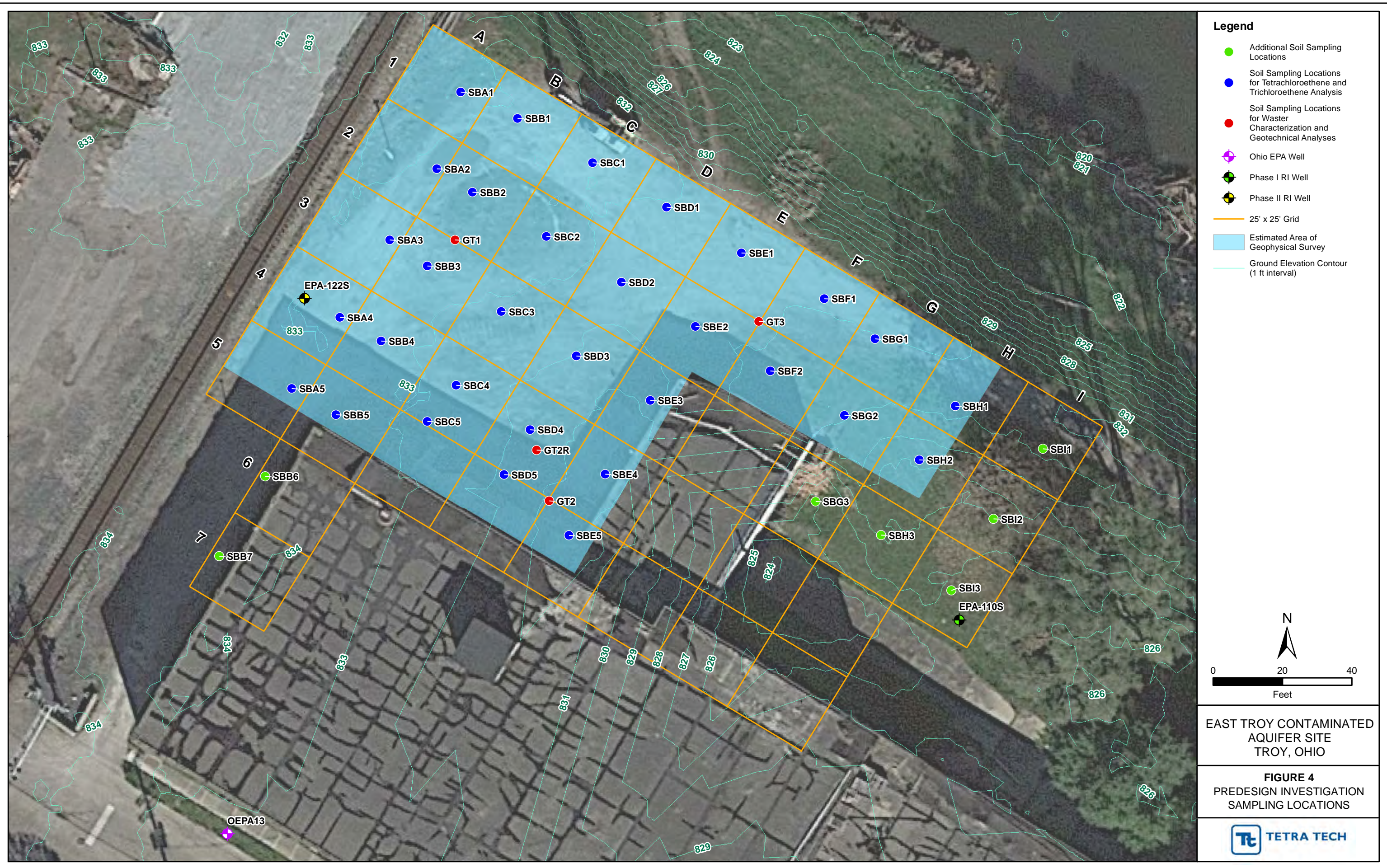
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Feet

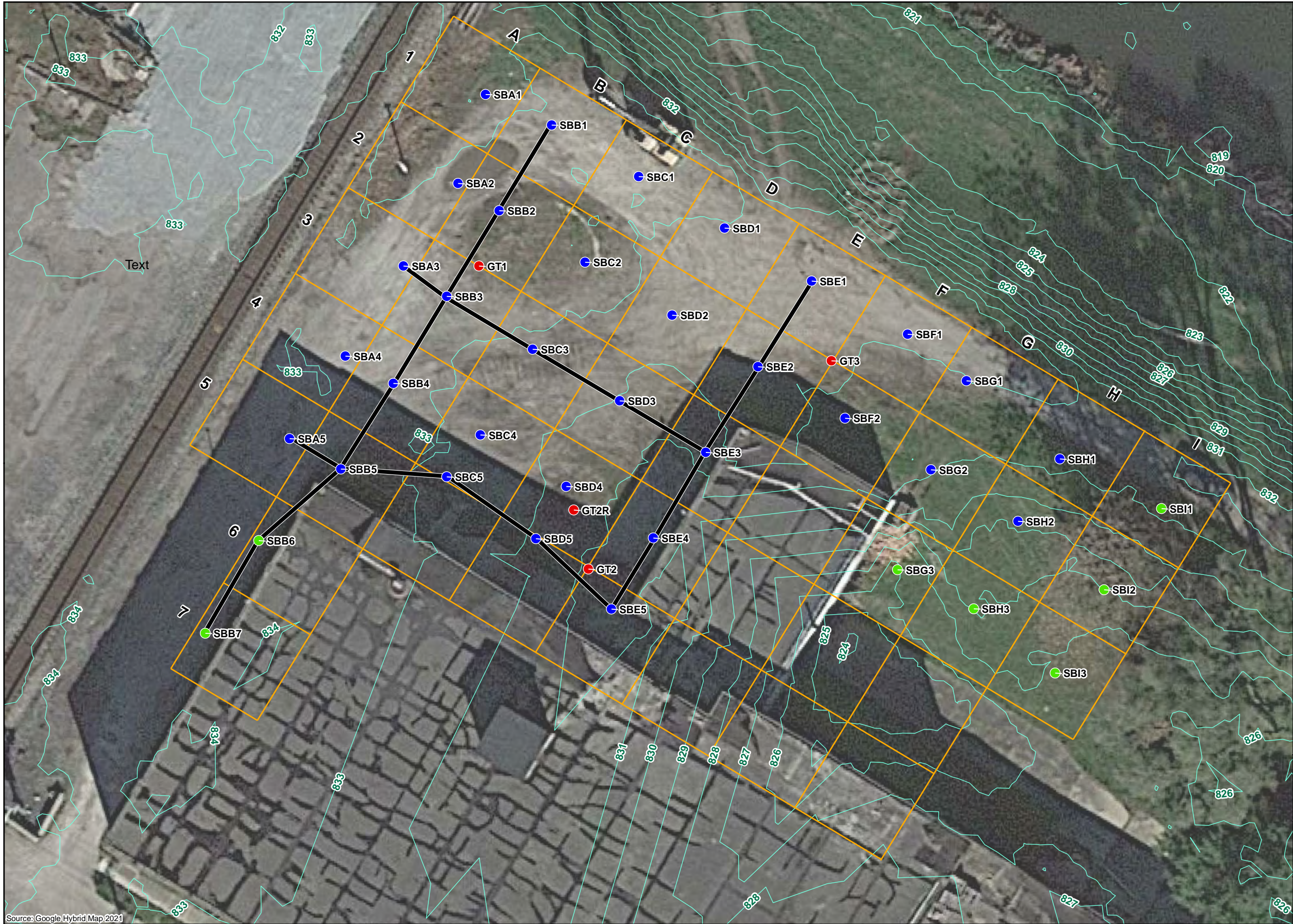
EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

FIGURE 2
ETCA SITE FEATURES

TETRA TECH







Legend

- Additional Soil Sampling Locations
- Soil Sampling Locations for Tetrachloroethene and Trichloroethene Analysis
- Soil Sampling Locations for Waste Characterization and Geotechnical Analyses
- Cross Section Line
- 25' x 25' Grid
- Ground Elevation Contour (1 ft interval)

0 20 40
Feet

EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

FIGURE 5
CROSS SECTION LOCATIONS

Tt TETRA TECH



Tetra Tech Inc.

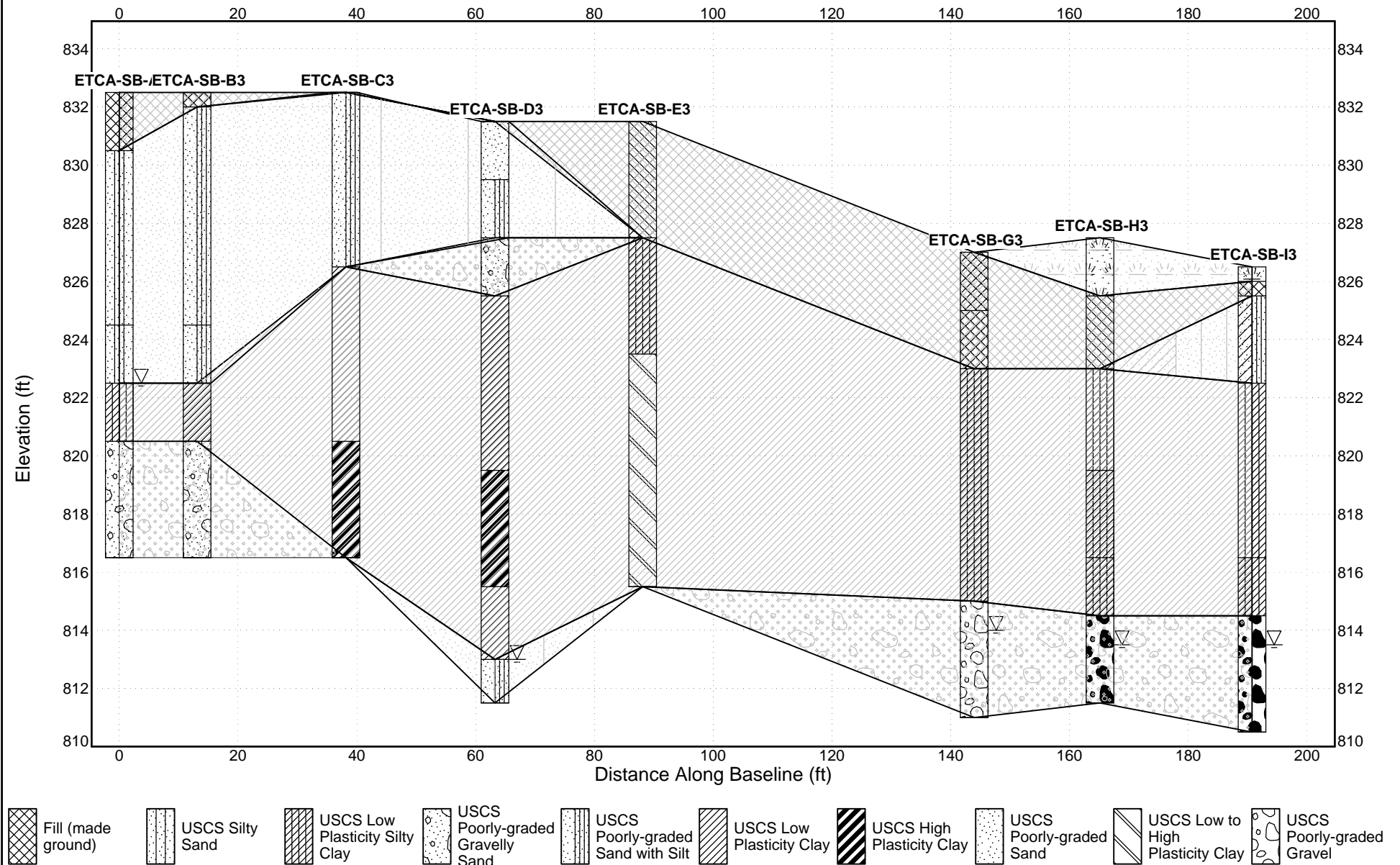
**Figure 6 - Subsurface Diagram
Row 3**

CLIENT Environmental Protection Agency

PROJECT NAME East Troy Contaminated Aquifer

PROJECT NUMBER 103Z6401001

PROJECT LOCATION Troy, Miami County, Ohio



FINAL SIMPLE FENCE WITH LEGEND - DATA ENTRY.GDT - 7/12/22 18:13 - C:\USERS\CARLOS\MENORSALAZAR\ONE\TROY - TETRA TECH, INC\DESKTOP\GINT\TROY - NOV-DEC21.GPJ

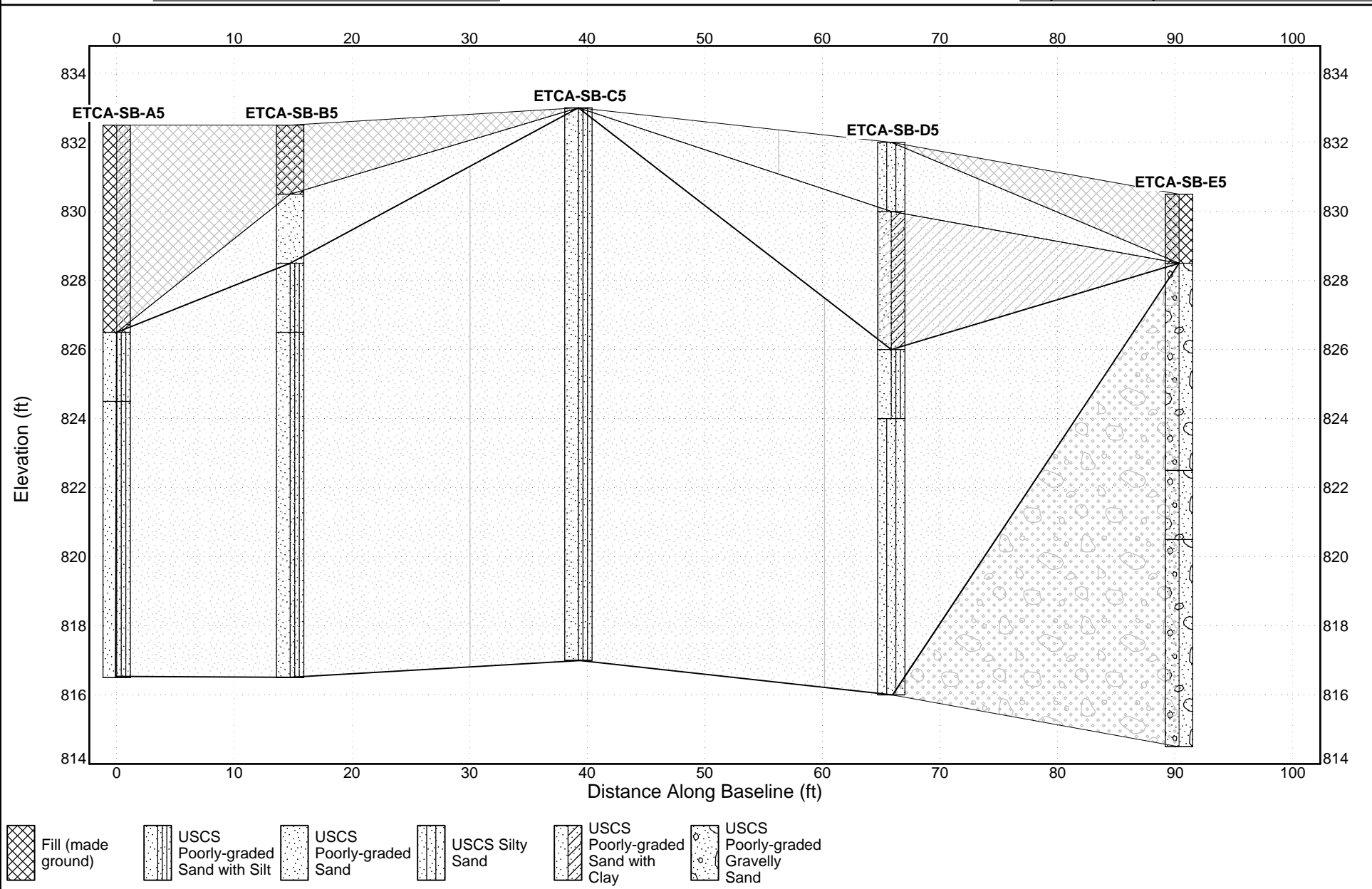


Tetra Tech Inc.

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Row 5

CLIENT Environmental Protection Agency
PROJECT NUMBER 103Z6401001

PROJECT NAME East Troy Contaminated Aquifer
PROJECT LOCATION Troy, Miami County, Ohio



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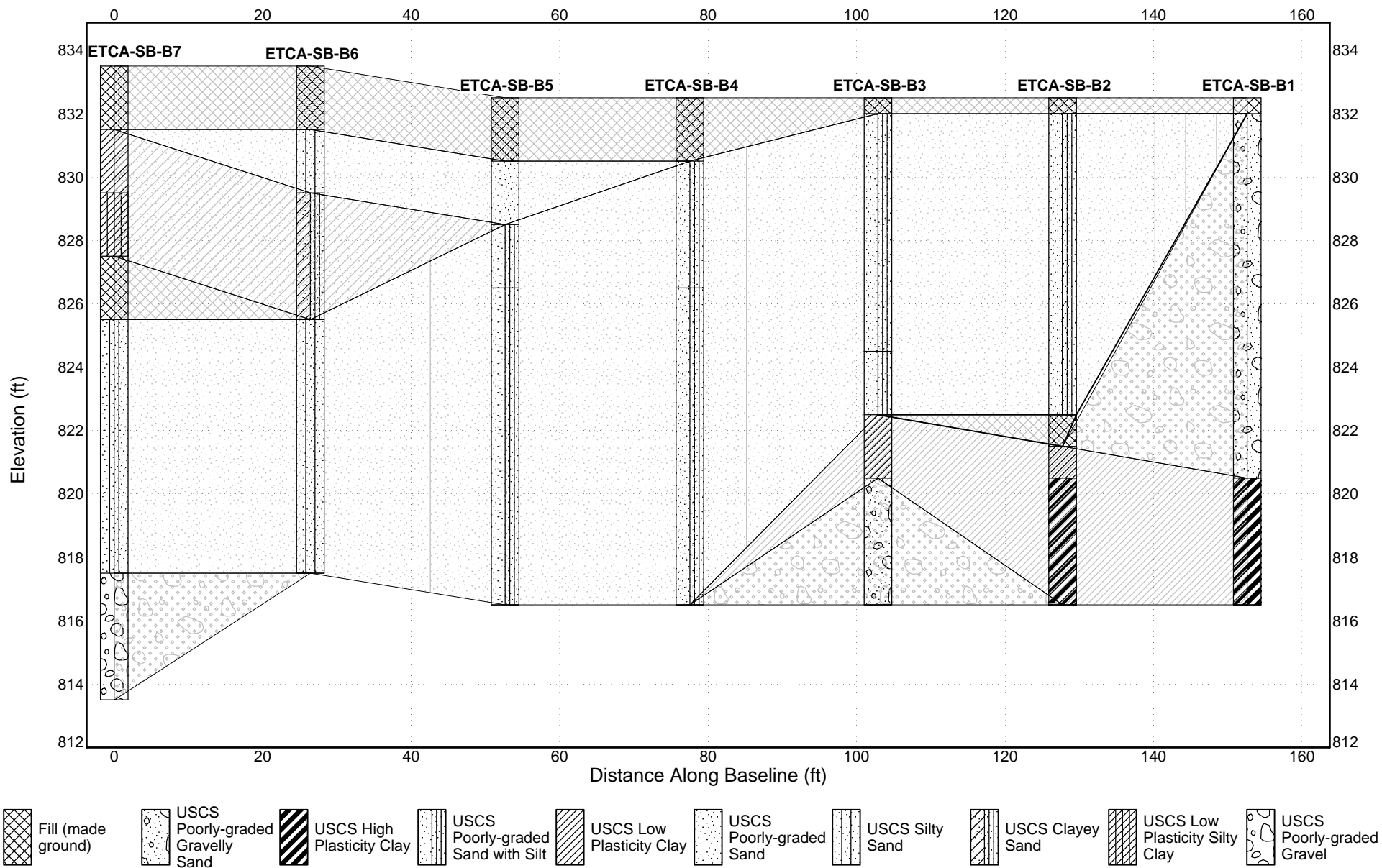


Tetra Tech Inc.

CLIENT Environmental Protection Agency
PROJECT NUMBER 103Z6401001

PROJECT NAME East Troy Contaminated Aquifer
PROJECT LOCATION Troy, Miami County, Ohio

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Row B



FINAL SIMPLE FENCE WITH LEGEND - DATA ENTRY.GDT - 7/12/22 10:06 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\GINT\EA\TROY_NOV-DEC21.GPJ



Tetra Tech Inc.

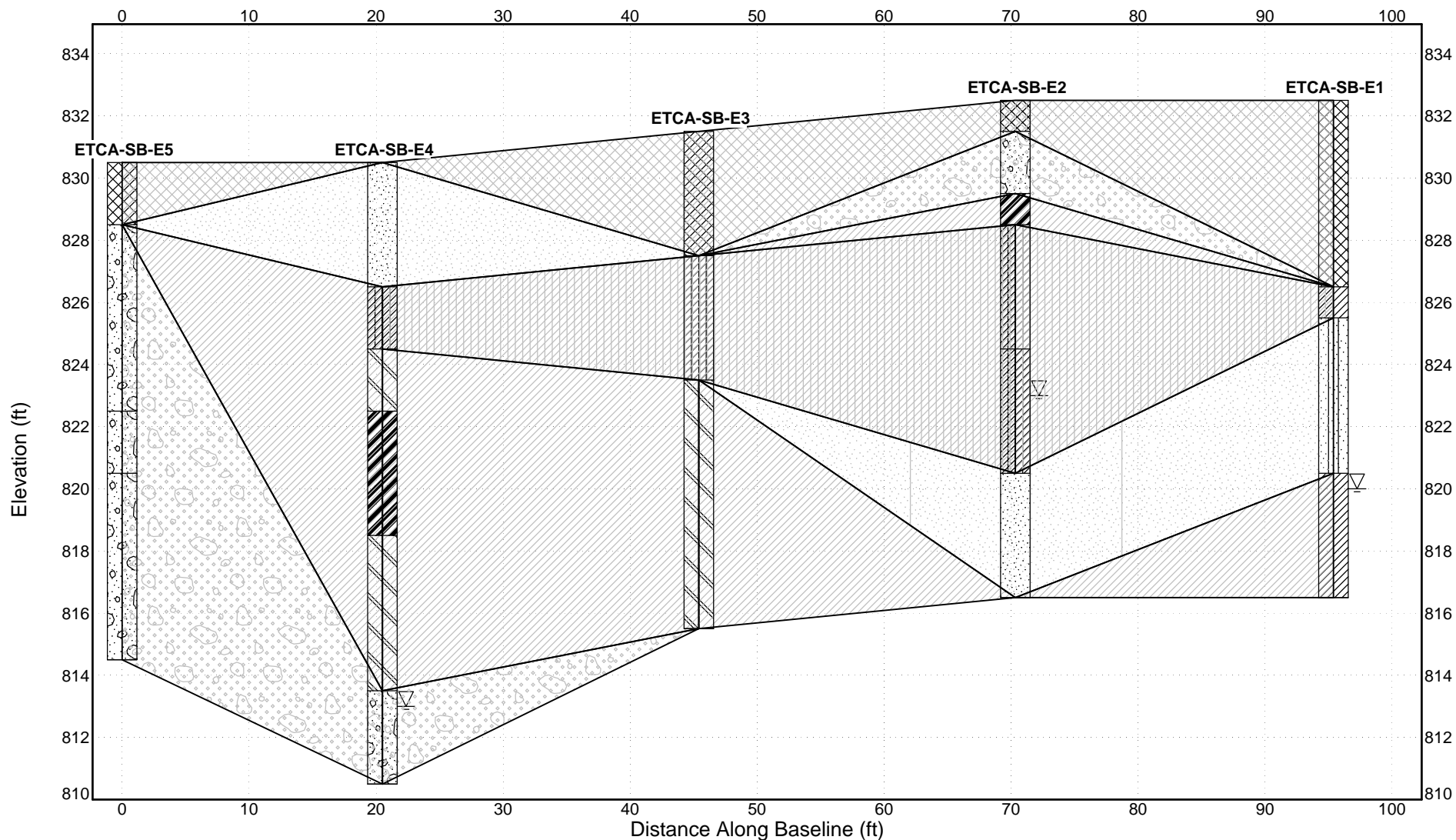
CLIENT Environmental Protection Agency

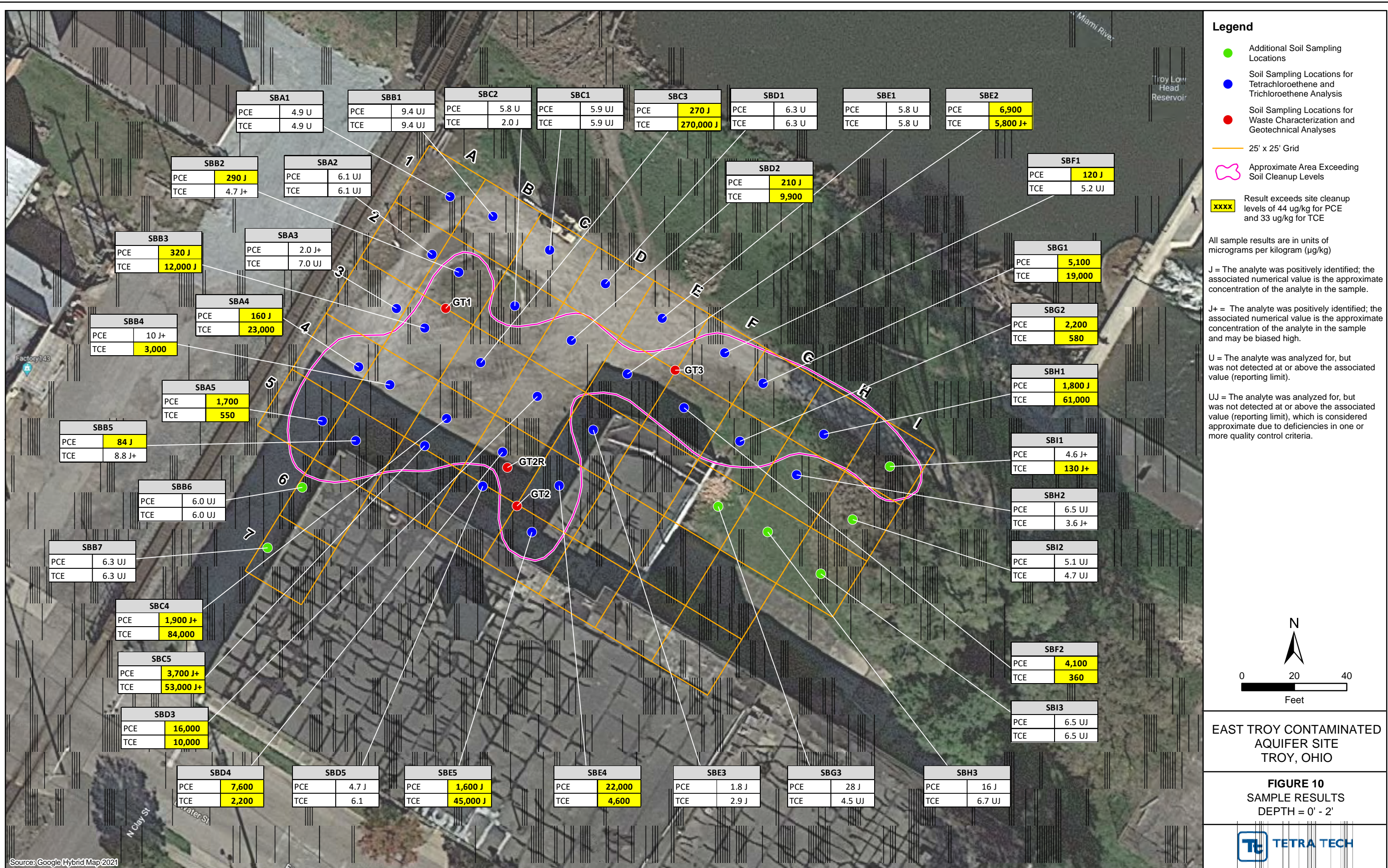
PROJECT NUMBER 103Z6401001

:][i fY'- '!Gi Vgi fZuW'8]U fUa
Row E

PROJECT NAME East Troy Contaminated Aquifer

PROJECT LOCATION Troy, Miami County, Ohio







Legend

- Additional Soil Sampling Locations
- Soil Sampling Locations for Tetrachloroethene and Trichloroethene Analysis
- Soil Sampling Locations for Waste Characterization and Geotechnical Analyses
- Approximate Area Exceeding Soil Cleanup Levels
- 25' x 25' Grid
- Result exceeds site cleanup levels of 44 µg/kg for PCE and 33 µg/kg for TCE

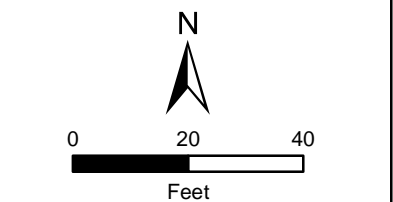
All sample results are in units of micrograms per kilogram (µg/kg)

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample and may be biased high.

U = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

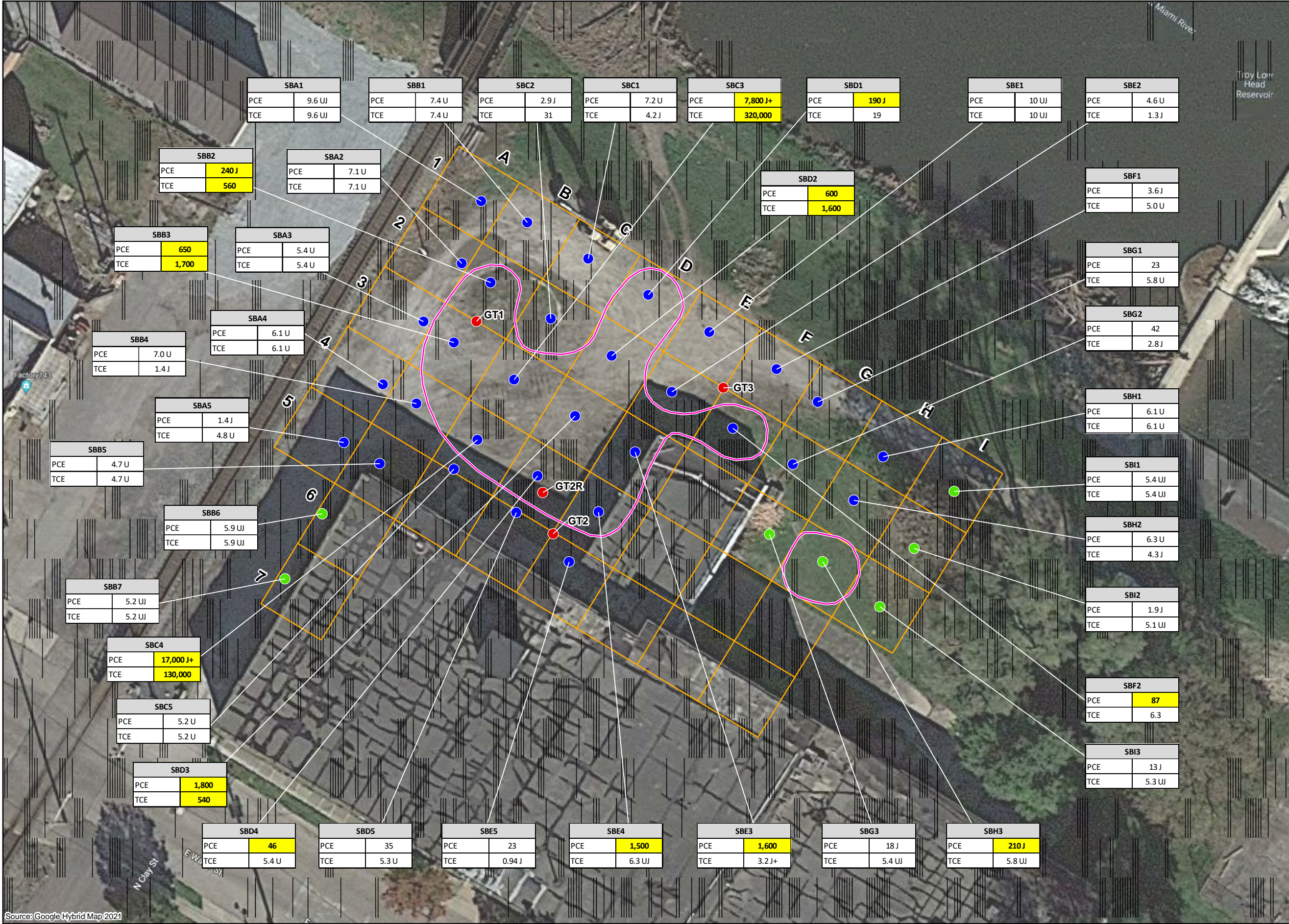
UJ = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.



**EAST TROY CONTAMINATED AQUIFER SITE
TROY, OHIO**

FIGURE 11
SAMPLE RESULTS
DEPTH = 4' - 6'





- Legend**
- Additional Soil Sampling Locations
 - Soil Sampling Locations for Tetrachloroethene and Trichloroethene Analysis
 - Soil Sampling Locations for Waste Characterization and Geotechnical Analyses
 - Approximate Area Exceeding Soil Cleanup Levels
 - 25' x 25' Grid
 - Result exceeds site cleanup levels of 44 ug/kg for PCE and 33 ug/kg for TCE

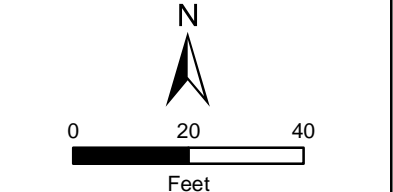
All sample results are in units of micrograms per kilogram (µg/kg)

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample and may be biased high.

U = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

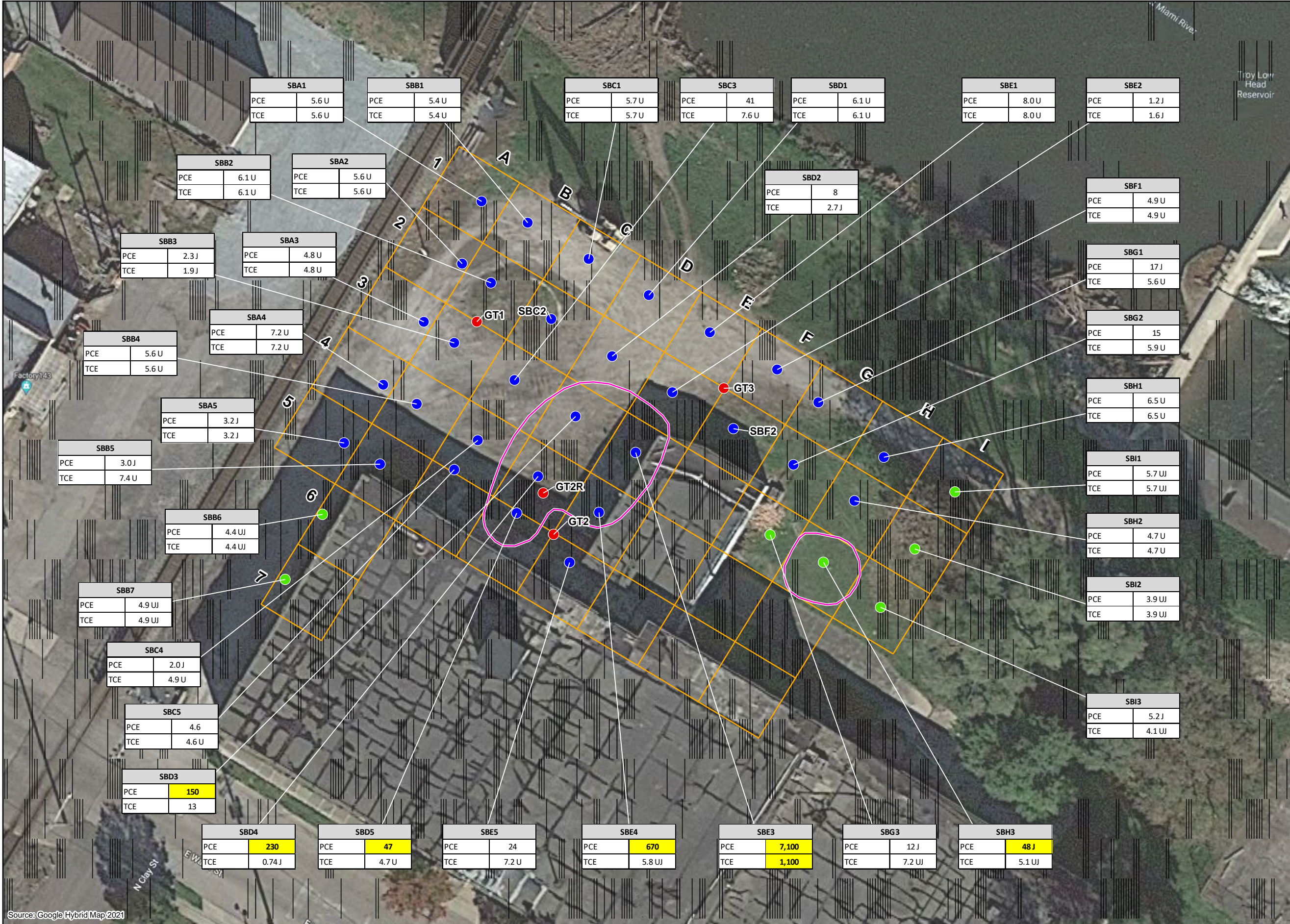
UJ = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.



**EAST TROY CONTAMINATED AQUIFER SITE
TROY, OHIO**

FIGURE 12
SAMPLE RESULTS
DEPTH = 8' - 10'





Legend

- Additional Soil Sampling Locations
- Soil Sampling Locations for Tetrachloroethene and Trichloroethene Analysis
- Soil Sampling Locations for Waste Characterization and Geotechnical Analyses
- Approximate Area Exceeding Soil Cleanup Levels
- 25' x 25' Grid
- Result exceeds site cleanup levels of 44 ug/kg for PCE and 33 ug/kg for TCE

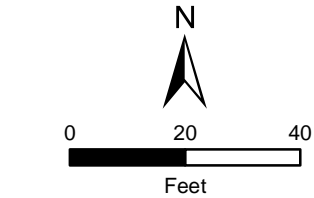
All sample results are in units of micrograms per kilogram (µg/kg)

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample and may be biased high.

U = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).

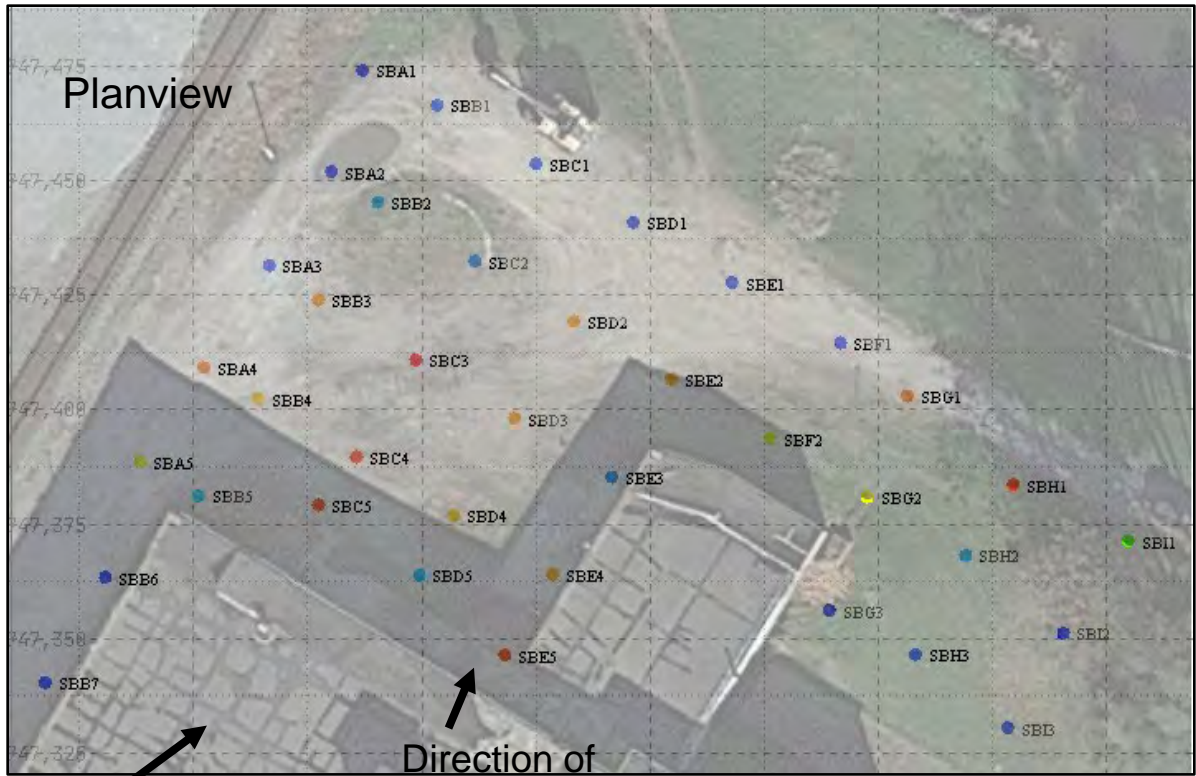
UJ = The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.



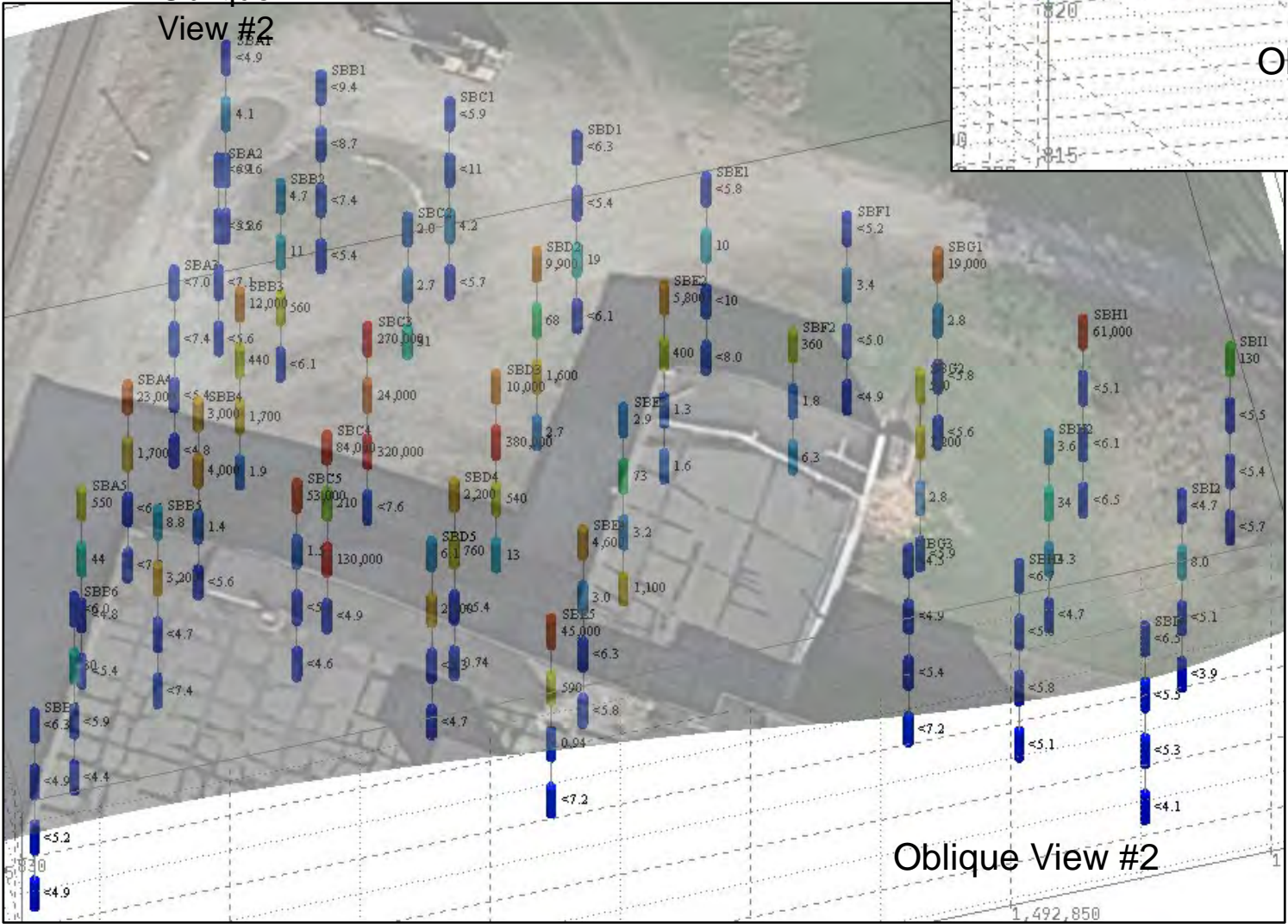
EAST TROY CONTAMINATED AQUIFER SITE
TROY, OHIO

FIGURE 13
SAMPLE RESULTS
DEPTH = 12' - 14'

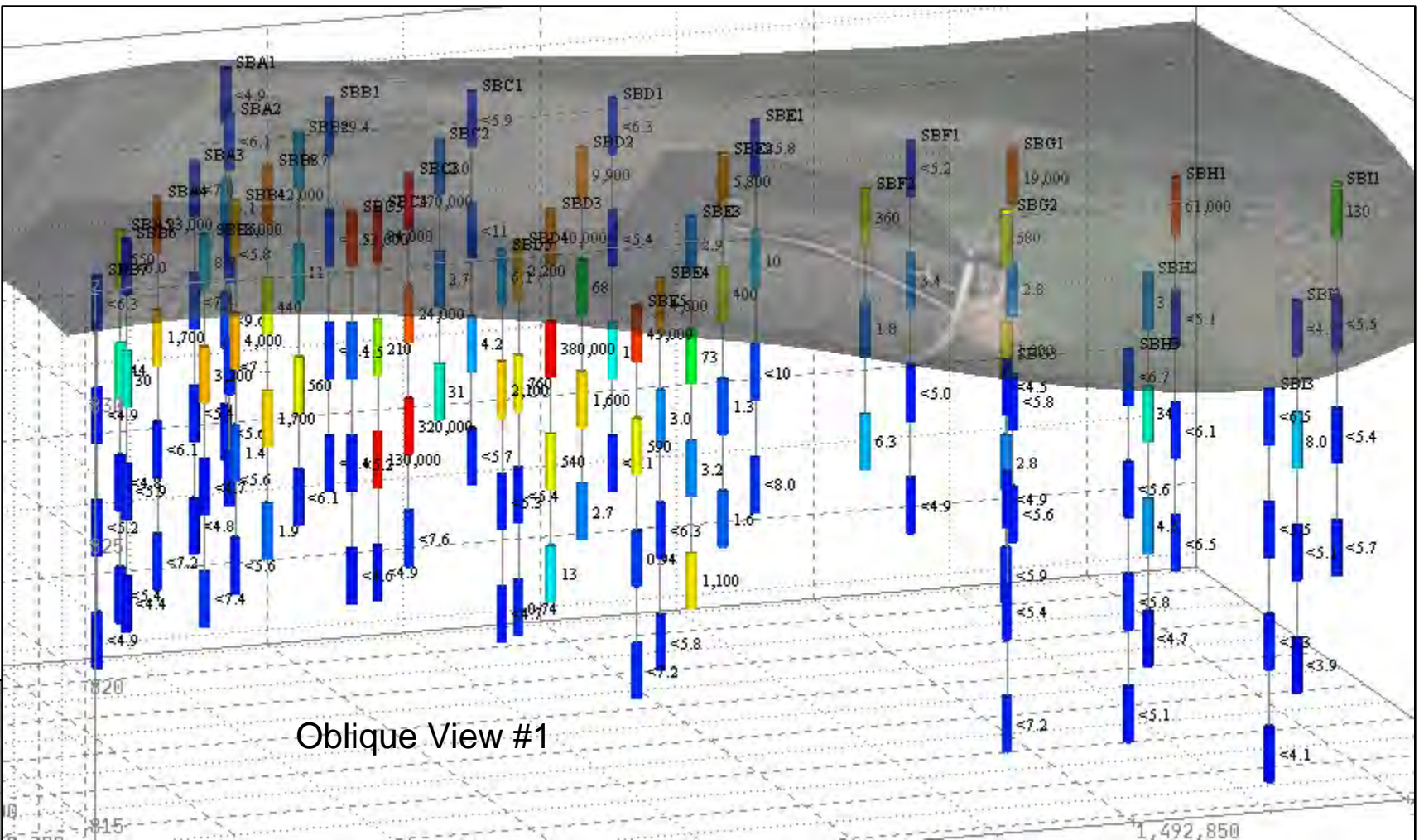




Direction of
Oblique
View #1

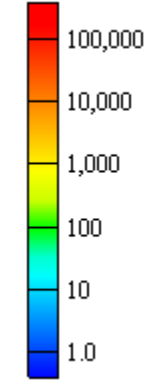


Oblique View #2



Oblique View #1

Trichloroethene
Sample Concentrations
(µg/kg)



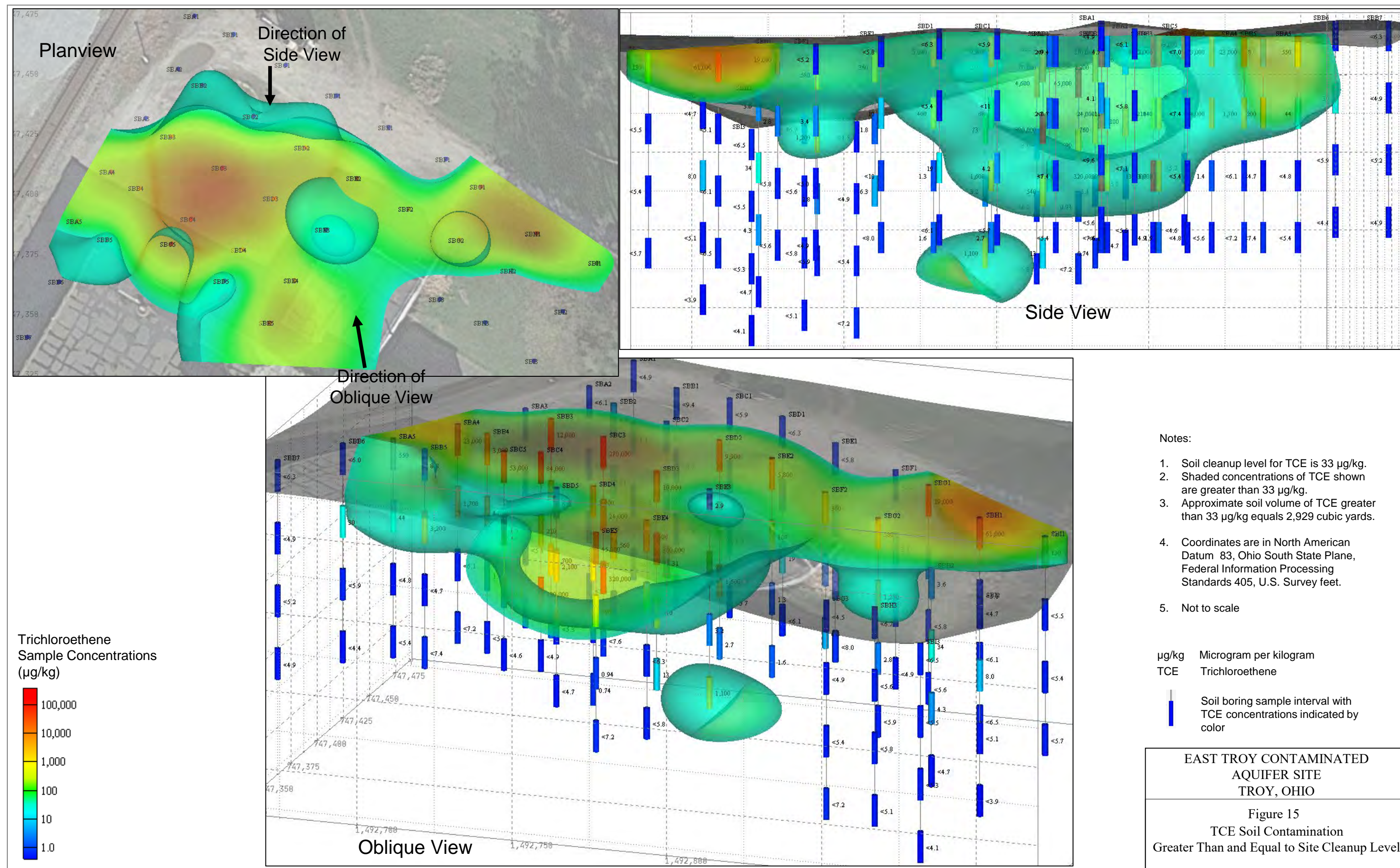
- Notes:
1. Soil cleanup level for TCE is 33 µg/kg
 2. Coordinates are in North American Datum 83, Ohio South State Plane, Federal Information Processing Standards 405, U.S. Survey feet.
 3. Not to scale

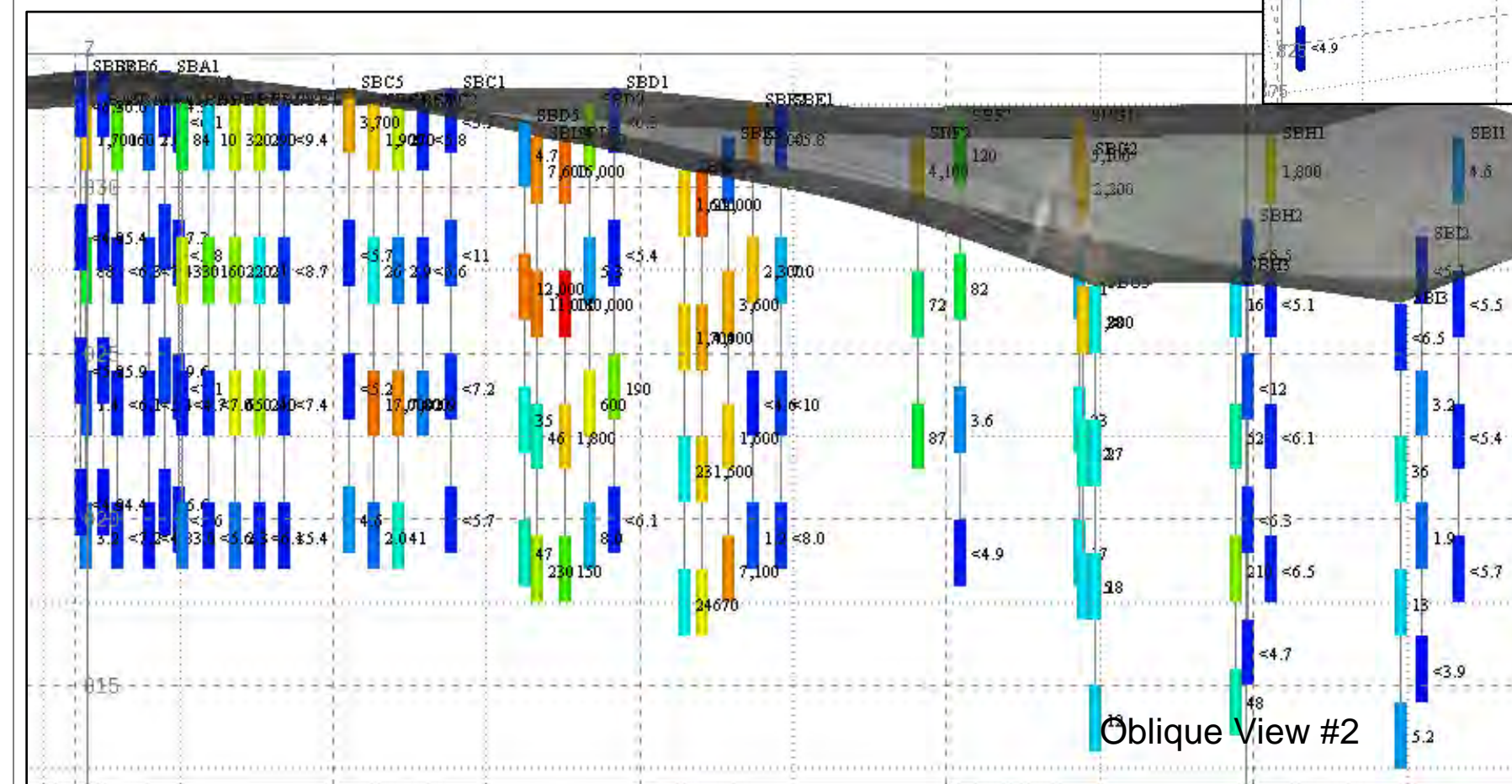
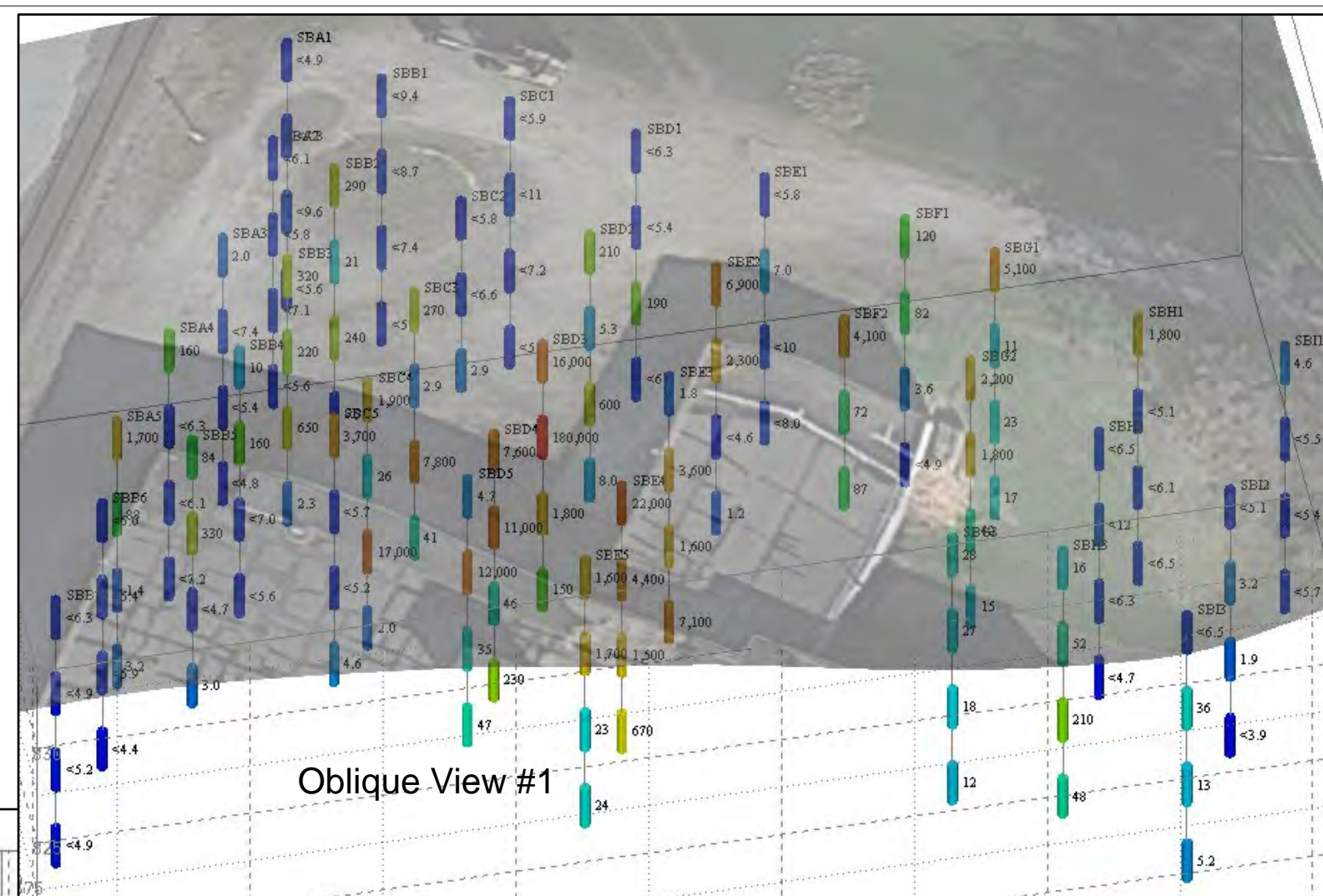
µg/kg Microgram per kilogram
TCE Trichloroethene

Soil boring sample interval with
TCE concentrations indicated by
color

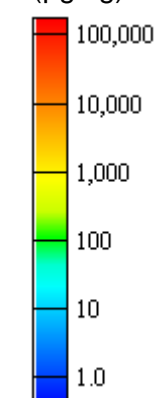
EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

Figure14
TCE Soil Sample Results





Tetrachloroethene
Sample Concentrations
($\mu\text{g}/\text{kg}$)



Notes:

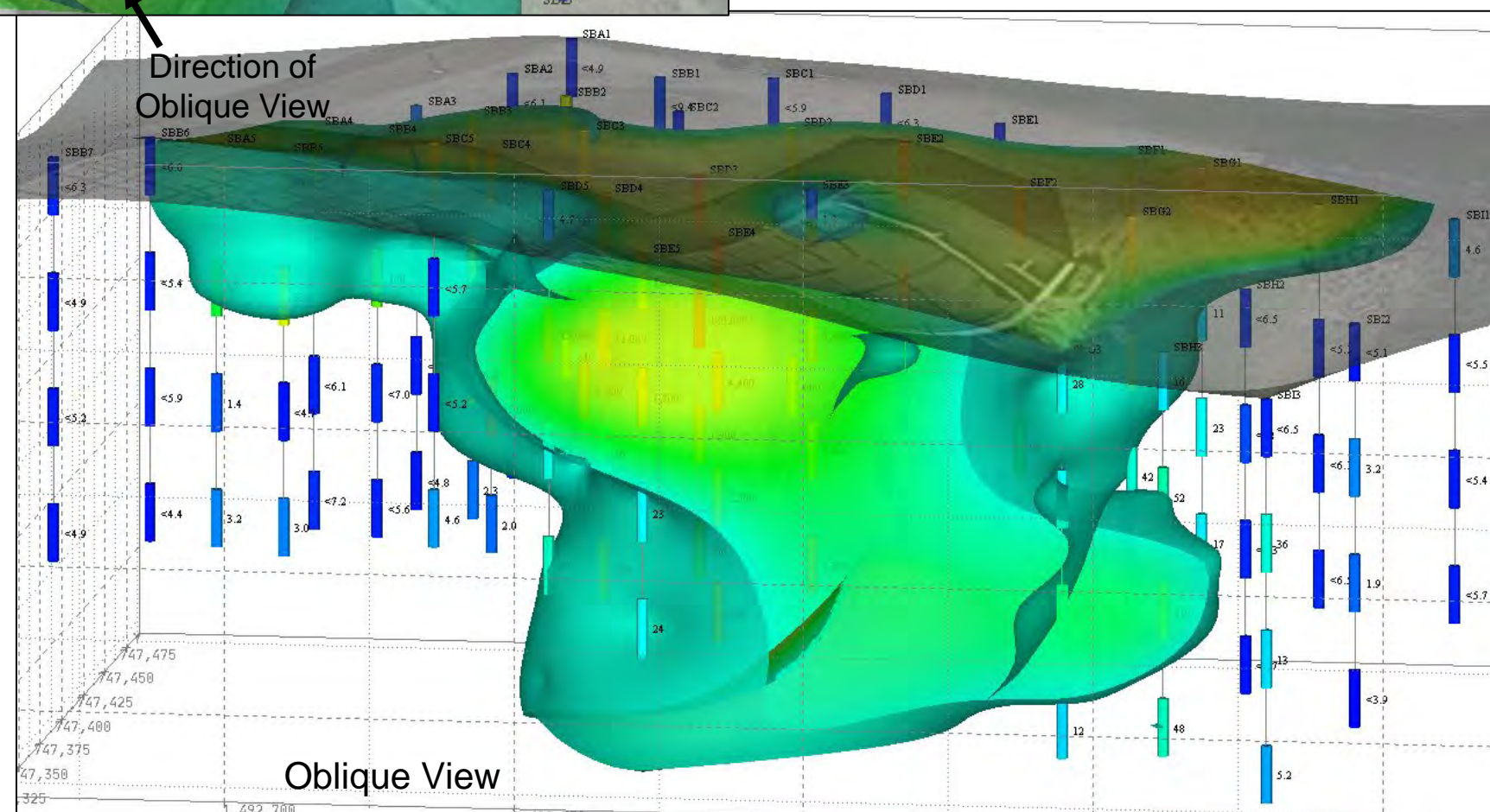
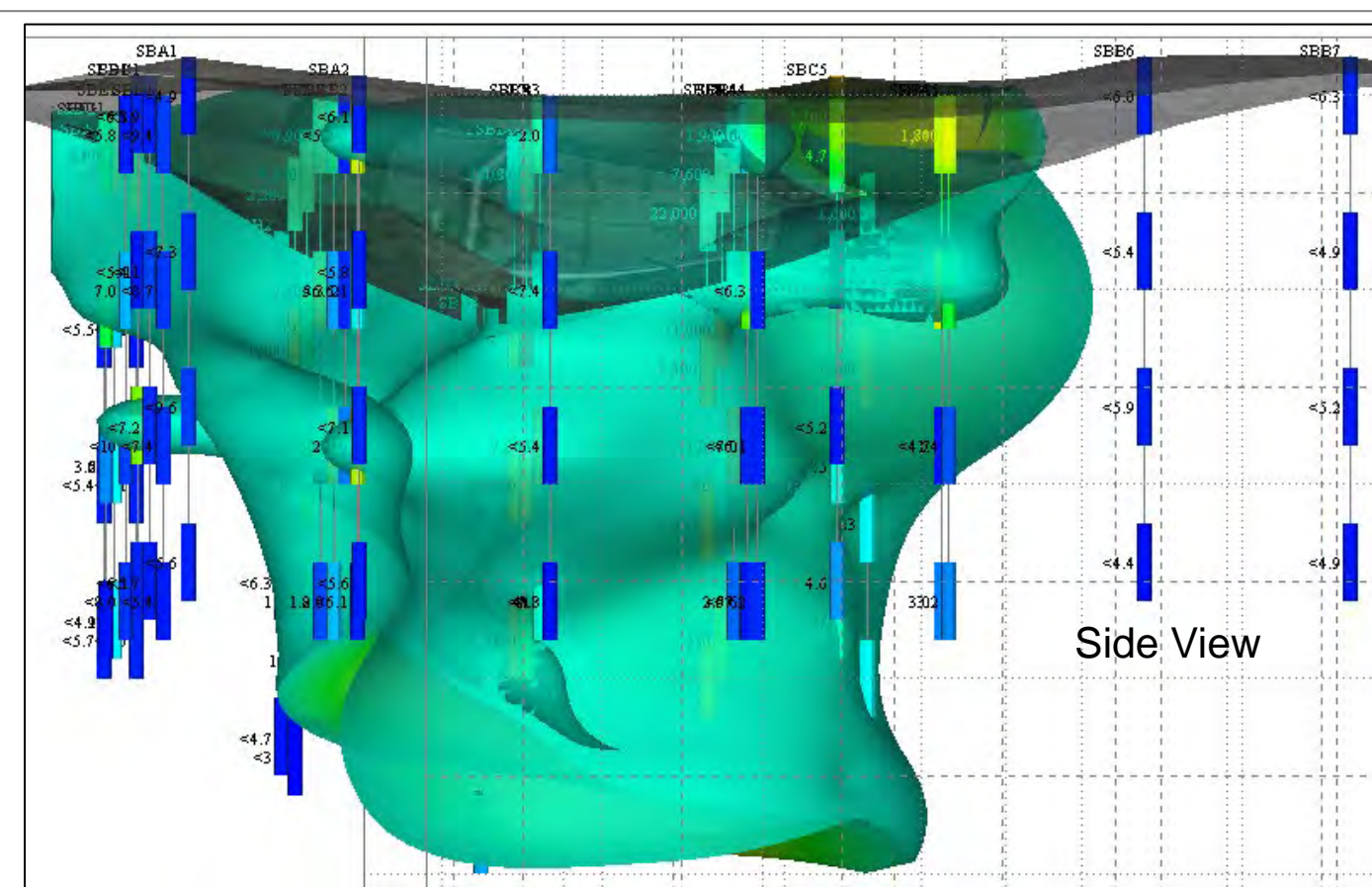
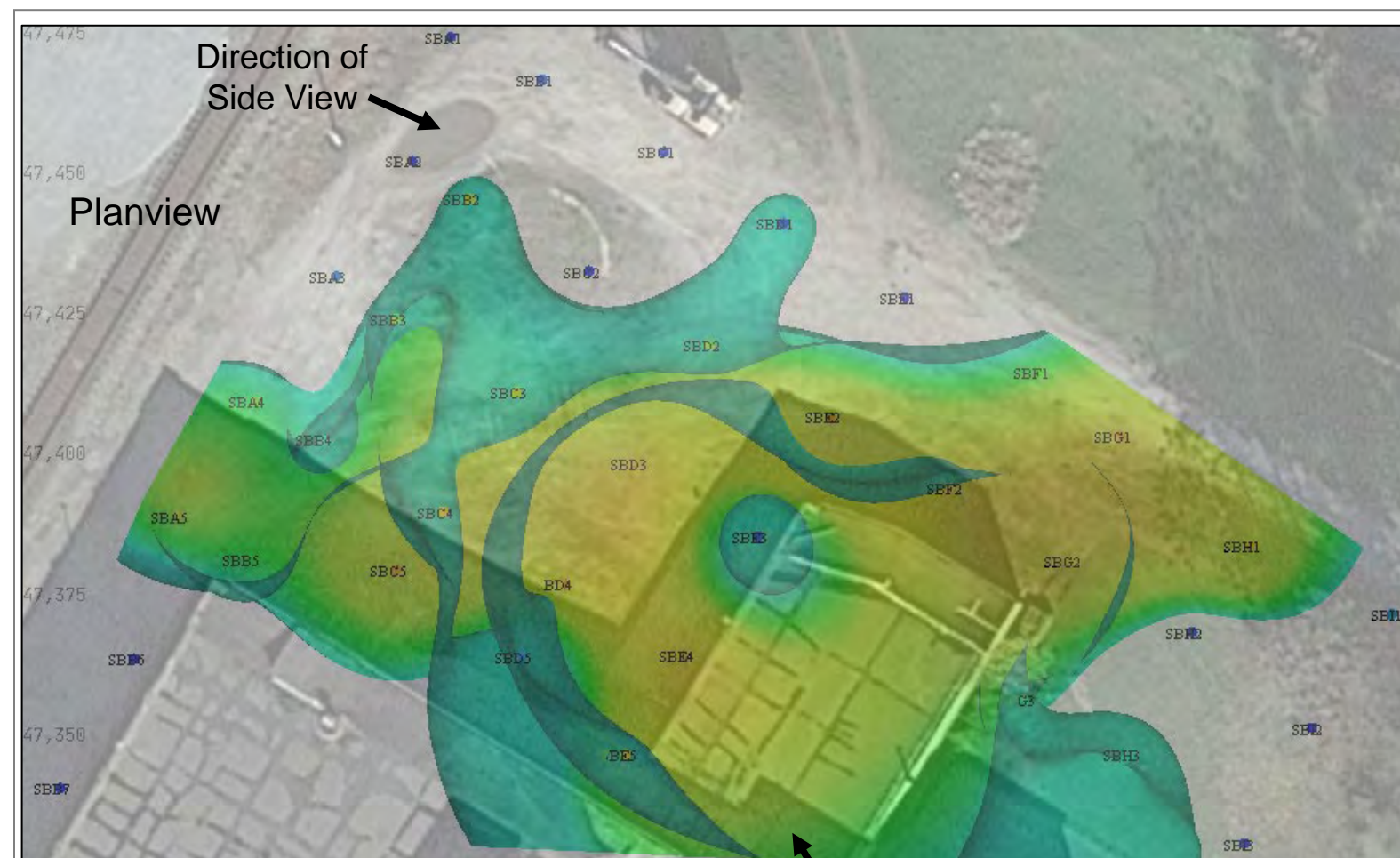
1. Soil cleanup level for PCE is $44 \mu\text{g}/\text{kg}$
2. Coordinates are in North American Datum 83, Ohio South State Plane, Federal Information Processing Standards 405, U.S. Survey feet.
3. Not to scale

$\mu\text{g}/\text{kg}$ Microgram per kilogram
PCE Tetrachloroethene

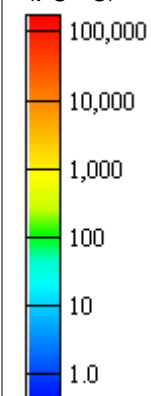
Soil boring sample interval with
TCE concentrations indicated by
color

EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

Figure 16
PCE Soil Sample Results



Tetrachloroethene
Sample Concentrations
(µg/kg)



Notes:

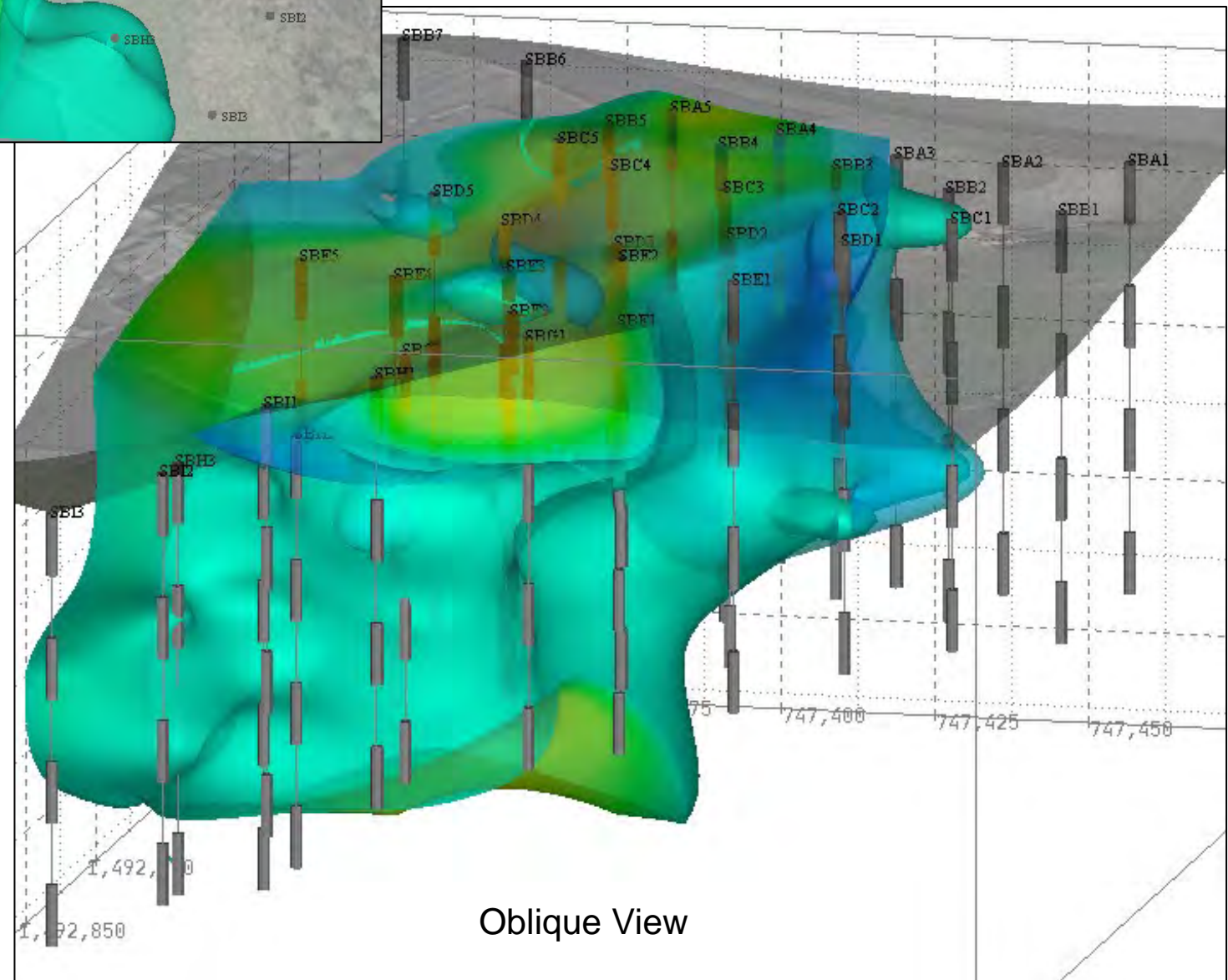
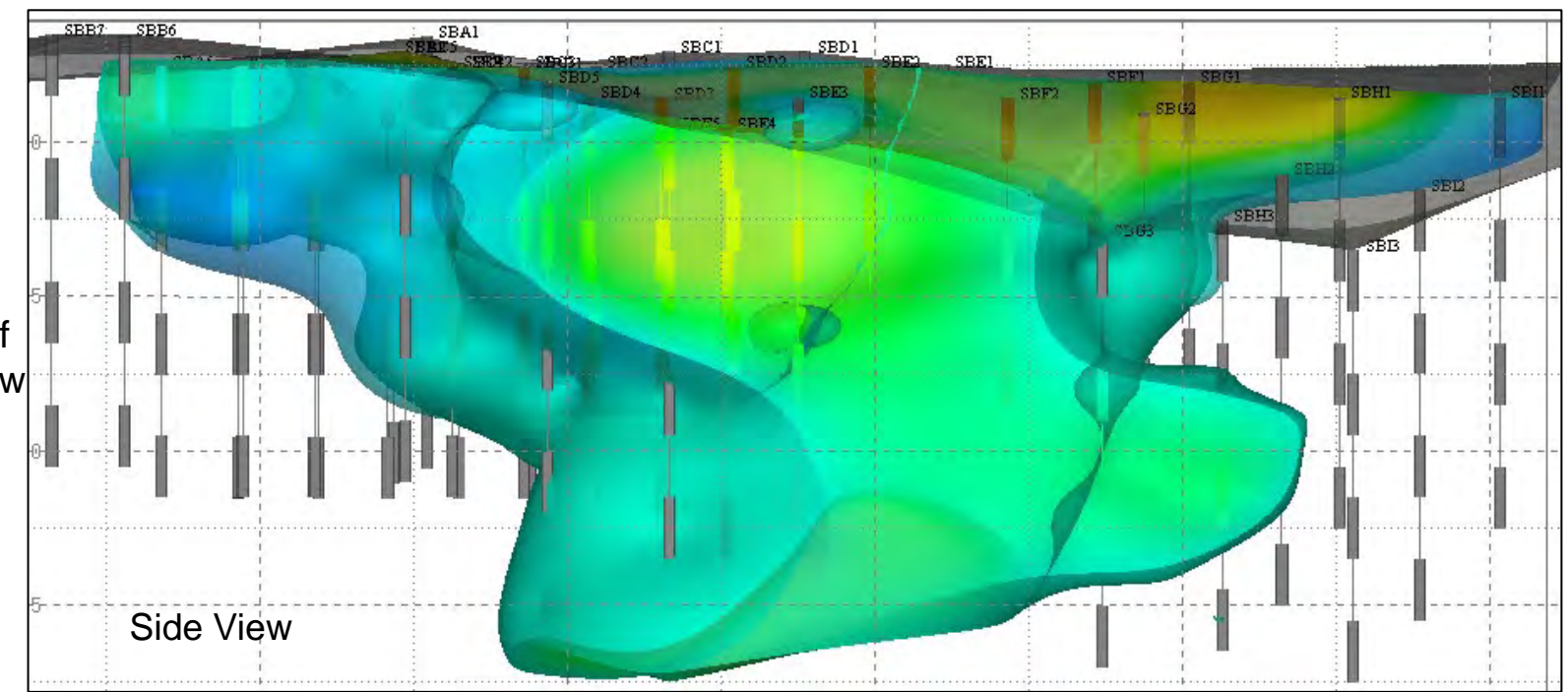
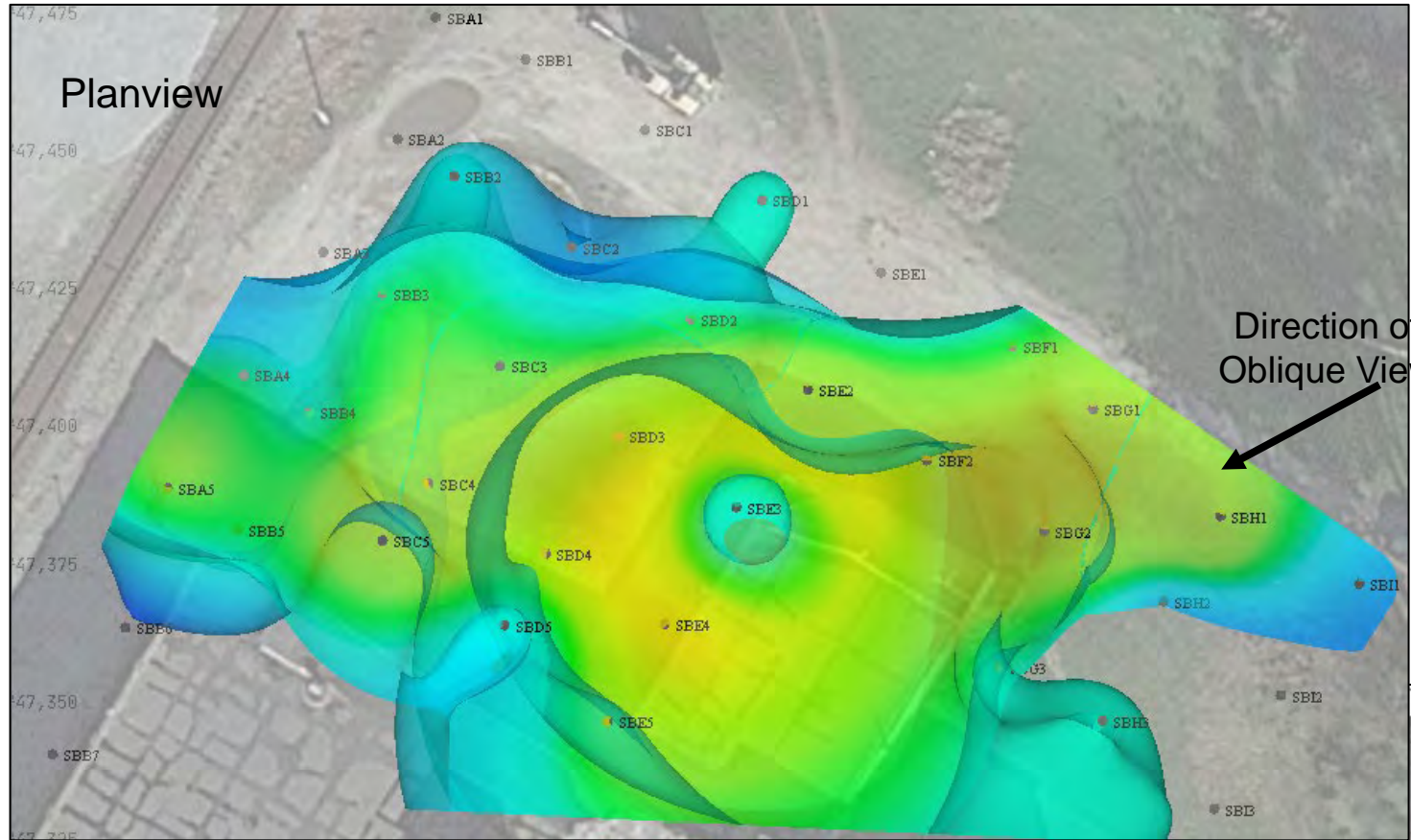
1. Soil cleanup level for PCE is 44 µg/kg.
2. Shaded concentrations of PCE shown are greater than 44 µg/kg.
3. Approximate soil volume of PCE greater than 44 µg/kg equals 3,863 cubic yards.
4. Coordinates are in North American Datum 83, Ohio South State Plane, Federal Information Processing Standards 405, U.S. Survey feet.
5. Not to scale

µg/kg Microgram per kilogram
PCE Tetrachloroethene

Soil boring sample interval with
TCE concentrations indicated by
color

EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

Figure 17
PCE Soil Contamination
Greater Than and Equal to Site Cleanup Level



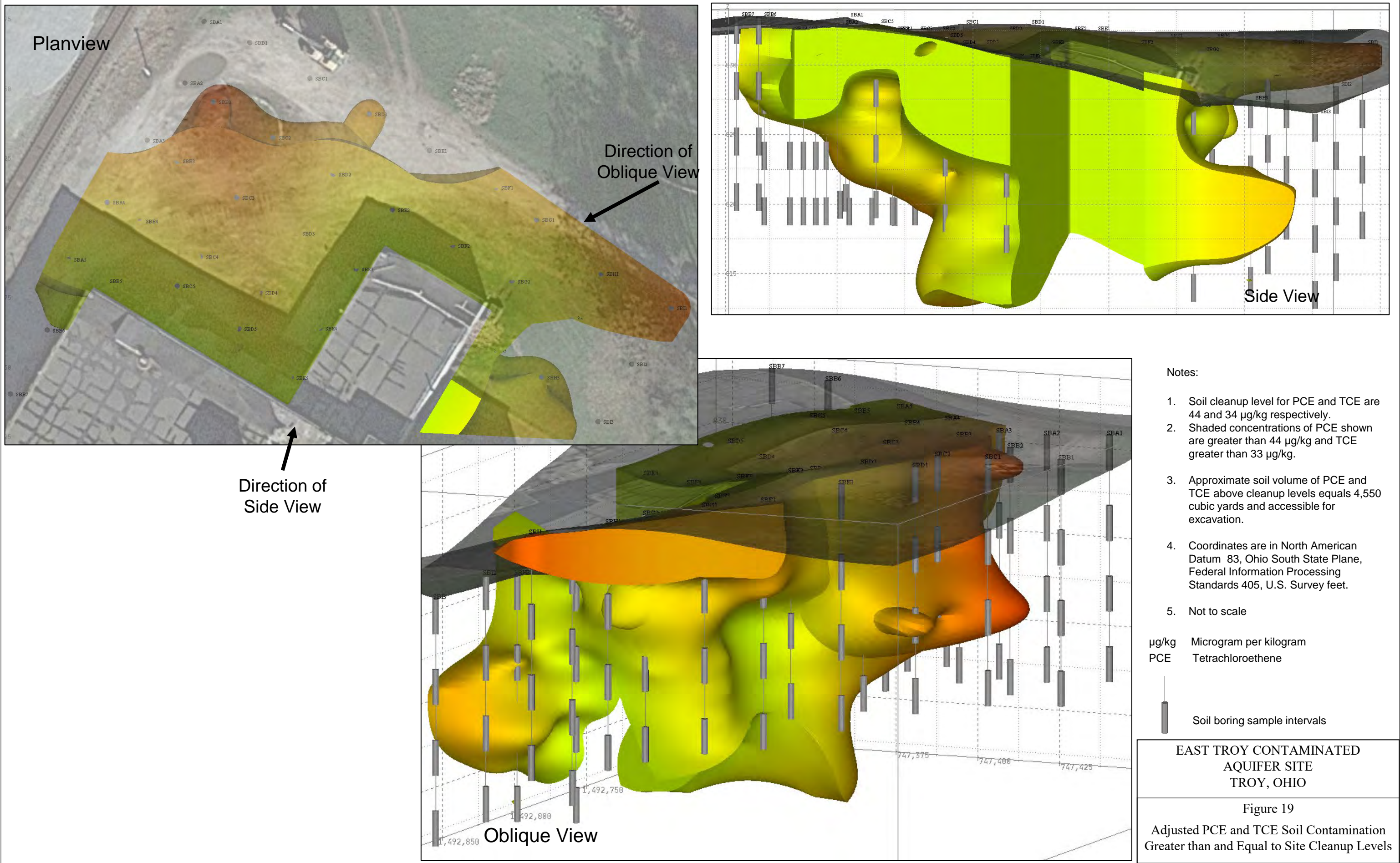
- Notes:
1. Soil cleanup level for PCE and TCE are 44 and 34 $\mu\text{g}/\text{kg}$ respectively.
 2. Shaded concentrations of PCE shown are greater than 44 $\mu\text{g}/\text{kg}$ and TCE greater than 33 $\mu\text{g}/\text{kg}$.
 3. Approximate soil volume of PCE and TCE above cleanup levels equals 6,303 cubic yards.
 4. Coordinates are in North American Datum 83, Ohio South State Plane, Federal Information Processing Standards 405, U.S. Survey feet.
 5. Not to scale

$\mu\text{g}/\text{kg}$ Microgram per kilogram
PCE Tetrachloroethene

Soil boring sample intervals

EAST TROY CONTAMINATED
AQUIFER SITE
TROY, OHIO

Figure 18
PCE and TCE Soil Contamination
Greater than and Equal to Site Cleanup Levels



TABLES

Table 1: Soil Boring Sampling Summary

Table 2: Waste Characterization Sampling Summary

Table 3: Blow Count and Split Spoon Recovery

Table 4: Geotechnical Sampling Summary

Table 5: PDI Summary of Soil Sampling Analytical Results: PCE and TCE

Table 6: PDI Summary of Soil Sampling Analytical Results: Other VOCs.

Table 7: PDI Summary of Soil Sampling Analytical Results: Waste Characterization and IDW

Table 8: Geotechnical Sample Results

Table 9: Summary of Groundwater Depths

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBA1-0002-112921	A1	16	10	0-2	11/29/2021	9:18	Field Sample
ETCA-SBA1-0406-112921	A1			4-6	11/29/2021	9:25	Field Sample
ETCA-SBA1-0810-112921	A1			8-10	11/29/2021	9:28	Field Sample
ETCA-SBA1-1214-112921	A1			12-14	11/29/2021	9:30	Field Sample
ETCA-SBA2-0002-112921	A2	16	11	0-2	11/29/2021	9:57	Field Sample
ETCA-SBA2-0406-112921	A2			4-6	11/29/2021	10:00	Field Sample
ETCA-SBA2-0810-112921	A2			8-10	11/29/2021	10:05	Field Sample
ETCA-SBA2-1214-112921	A2			12-14	11/29/2021	10:07	Field Sample
ETCA-SBA3-0002-112921	A3	16	10	0-2	11/29/2021	10:20	Field Sample
ETCA-SBA3-0406-112921	A3			4-6	11/29/2021	10:25	Field Sample
ETCA-SBA3-0810-112921	A3			8-10	11/29/2021	10:30	Field Sample
ETCA-SBA3-1214-112921	A3			12-14	11/29/2021	10:35	Field Sample
ETCA-SBA4-0002-112921	A4	16	NE	0-2	11/29/2021	10:46	Field Sample
ETCA-SBA4-0406-112921	A4			4-6	11/29/2021	10:50	Field Sample
ETCA-SBA4-0406-D-112921	A4			4-6	11/29/2021	10:55	Field Duplicate
ETCA-SBA4-0810-112921	A4			8-10	11/29/2021	11:00	Field Sample
ETCA-SBA4-1214-112921	A4			12-14	11/29/2021	11:05	Field Sample
ETCA-SBA5-0002-112921	A5	16	NE	0-2	11/29/2021	11:15	Field Sample
ETCA-SBA5-0002-D-112921	A5			0-2	11/29/2021	11:17	Field Duplicate
ETCA-SBA5-0406-112921	A5			4-6	11/29/2021	11:20	Field Sample
ETCA-SBA5-0810-112921	A5			8-10	11/29/2021	11:25	Field Sample
ETCA-SBA5-1214-112921	A5			12-14	11/29/2021	11:30	Field Sample
ETCA-SBB1-0002-112921	B1	16	NE	0-2	11/29/2021	14:05	Field Sample
ETCA-SBB1-0002-D-112921	B1			0-2	11/29/2021	14:07	Field Duplicate
ETCA-SBB1-0406-112921	B1			4-6	11/29/2021	14:10	Field Sample
ETCA-SBB1-0810-112921	B1			8-10	11/29/2021	14:25	Field Sample
ETCA-SBB1-1214-112921	B1			12-14	11/29/2021	14:30	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBB2-0002-112921	B2	16	NE	0-2	11/29/2021	13:40	Field Sample
ETCA-SBB2-0406-112921	B2			4-6	11/29/2021	13:45	Field Sample
ETCA-SBB2-0810-112921	B2			8-10	11/29/2021	13:50	Field Sample
ETCA-SBB2-1214-112921	B2			12-14	11/29/2021	13:55	Field Sample
ETCA-SBB3-0002-112921	B3	16	NE	0-2	11/29/2021	13:10	Field Sample
ETCA-SBB3-0002-D-112921	B3			0-2	11/29/2021	13:12	Field Duplicate
ETCA-SBB3-0406-112921	B3			4-6	11/29/2021	13:15	Field Sample
ETCA-SBB3-0810-112921	B3			8-10	11/29/2021	13:20	Field Sample
ETCA-SBB3-0810-D-112921	B3			8-10	11/29/2021	13:22	Field Duplicate
ETCA-SBB3-1214-112921	B3			12-14	11/29/2021	13:25	Field Sample
ETCA-SBB4-0002-112921	B4	16	NE	0-2	11/29/2021	12:45	Field Sample
ETCA-SBB4-0406-112921	B4			4-6	11/29/2021	12:50	Field Sample
ETCA-SBB4-0810-112921	B4			8-10	11/29/2021	12:55	Field Sample
ETCA-SBB4-1214-112921	B4			12-14	11/29/2021	13:00	Field Sample
ETCA-SBB5-0002-112921	B5	16	NE	0-2	11/29/2021	11:50	Field Sample
ETCA-SBB5-0406-112921	B5			4-6	11/29/2021	11:55	Field Sample
ETCA-SBB5-0810-112921	B5			8-10	11/29/2021	12:00	Field Sample
ETCA-SBB5-1214-112921	B5			12-14	11/29/2021	12:05	Field Sample
ETCA-SBB6-0002-041422	B6	16	NE	0-2	4/14/2022	10:00	Field Sample
ETCA-SBB6-0406-041422	B6			4-6	4/14/2022	10:02	Field Sample
ETCA-SBB6-0810-041422	B6			8-10	4/14/2022	10:06	Field Sample
ETCA-SBB6-1214-041422	B6			12-14	4/14/2022	10:08	Field Sample
ETCA-SBB7-0002-041422	B7	16	NE	0-2	4/14/2022	9:08	Field Sample
ETCA-SBB7-0406-041422	B7			4-6	4/14/2022	9:12	Field Sample
ETCA-SBB7-0810-041422	B7			8-10	4/14/2022	9:22	Field Sample
ETCA-SBB7-1214-041422	B7			12-14	4/14/2022	9:36	Field Sample
ETCA-SBC1-0002-112921	C1	16	NE	0-2	11/29/2021	14:50	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBC1-0406-112921	C1			4-6	11/29/2021	15:05	Field Sample
ETCA-SBC1-0810-112921	C1			8-10	11/29/2021	14:55	Field Sample
ETCA-SBC1-1214-112921	C1			12-14	11/29/2021	15:00	Field Sample
ETCA-SBC2-0002-112921	C2	9	NE	0-2	11/29/2021	15:10	Field Sample
ETCA-SBC2-0406-112921	C2			4-6	11/29/2021	15:25	Field Sample
ETCA-SBC2-0809-112921	C2			8-9	11/29/2021	15:35	Field Sample
ETCA-SBC3-0002-112921	C3	16	NE	0-2	11/29/2021	15:45	Field Sample
ETCA-SBC3-0002-D-112921	C3			0-2	11/29/2021	15:47	Field Duplicate
ETCA-SBC3-0406-112921	C3			4-6	11/29/2021	15:50	Field Sample
ETCA-SBC3-0810-112921	C3			8-10	11/29/2021	15:55	Field Sample
ETCA-SBC3-1214-112921	C3			12-14	11/29/2021	16:00	Field Sample
ETCA-SBC4-0002-112921	C4	16	NE	0-2	11/29/2021	16:05	Field Sample
ETCA-SBC4-0406-112921	C4			4-6	11/29/2021	16:10	Field Sample
ETCA-SBC4-0810-112921	C4			8-10	11/29/2021	16:15	Field Sample
ETCA-SBC4-1214-112921	C4			12-14	11/29/2021	16:20	Field Sample
ETCA-SBC5-0002-113021	C5	16	NE	0-2	11/30/2021	9:10	Field Sample
ETCA-SBC5-0406-113021	C5			4-6	11/30/2021	9:15	Field Sample
ETCA-SBC5-0810-113021	C5			8-10	11/30/2021	9:20	Field Sample
ETCA-SBC5-1214-113021	C5			12-14	11/30/2021	9:25	Field Sample
ETCA-SBD1-0002-113021	D1	24	21	0-2	11/30/2021	10:50	Field Sample
ETCA-SBD1-0002-D-113021	D1			0-2	11/30/2021	10:52	Field Duplicate
ETCA-SBD1-0406-113021	D1			4-6	11/30/2021	10:55	Field Sample
ETCA-SBD1-0810-113021	D1			8-10	11/30/2021	11:00	Field Sample
ETCA-SBD1-1214-113021	D1			12-14	11/30/2021	11:05	Field Sample
ETCA-SBD2-0002-113021	D2	16	NE	0-2	11/30/2021	10:30	Field Sample
ETCA-SBD2-0406-113021	D2			4-6	11/30/2021	10:35	Field Sample
ETCA-SBD2-0810-113021	D2			8-10	11/30/2021	10:40	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBD2-1214-113021	D2			12-14	11/30/2021	10:45	Field Sample
ETCA-SBD3-0002-113021	D3	20	18.5	0-2	11/30/2021	10:10	Field Sample
ETCA-SBD3-0406-113021	D3			4-6	11/30/2021	10:15	Field Sample
ETCA-SBD3-0810-113021	D3			8-10	11/30/2021	10:20	Field Sample
ETCA-SBD3-1214-113021	D3			12-14	11/30/2021	10:25	Field Sample
ETCA-SBD4-0002-113021	D4	16	NE	0-2	11/30/2021	9:50	Field Sample
ETCA-SBD4-0002-D-113021	D4			0-2	11/30/2021	9:52	Field Duplicate
ETCA-SBD4-0406-113021	D4			4-6	11/30/2021	9:55	Field Sample
ETCA-SBD4-0810-113021	D4			8-10	11/30/2021	10:00	Field Sample
ETCA-SBD4-1214-113021	D4			12-14	11/30/2021	10:05	Field Sample
ETCA-SBD5-0002-113021	D5	16	NE	0-2	11/30/2021	9:30	Field Sample
ETCA-SBD5-0406-113021	D5			4-6	11/30/2021	9:35	Field Sample
ETCA-SBD5-0810-113021	D5			8-10	11/30/2021	9:40	Field Sample
ETCA-SBD5-1214-113021	D5			12-14	11/30/2021	9:45	Field Sample
ETCA-SBE1-0002-113021	E1	16	12.5	0-2	11/30/2021	11:10	Field Sample
ETCA-SBE1-0406-113021	E1			4-6	11/30/2021	11:15	Field Sample
ETCA-SBE1-0810-113021	E1			8-10	11/30/2021	11:20	Field Sample
ETCA-SBE1-1214-113021	E1			12-14	11/30/2021	11:30	Field Sample
ETCA-SBE2-0002-113021	E2	16	9.5	0-2	11/30/2021	11:50	Field Sample
ETCA-SBE2-0002-D-113021	E2			0-2	11/30/2021	11:52	Field Duplicate
ETCA-SBE2-0406-113021	E2			4-6	11/30/2021	11:55	Field Sample
ETCA-SBE2-0810-113021	E2			8-10	11/30/2021	12:00	Field Sample
ETCA-SBE2-1214-113021	E2			12-14	11/30/2021	12:05	Field Sample
ETCA-SBE3-0002-113021	E3	16	NE	0-2	11/30/2021	13:00	Field Sample
ETCA-SBE3-0406-113021	E3			4-6	11/30/2021	13:05	Field Sample
ETCA-SBE3-0810-113021	E3			8-10	11/30/2021	13:10	Field Sample
ETCA-SBE3-1214-113021	E3			12-14	11/30/2021	13:15	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBE4-0002-113021	E4	20	17.5	0-2	11/30/2021	13:20	Field Sample
ETCA-SBE4-0406-113021	E4			4-6	11/30/2021	13:25	Field Sample
ETCA-SBE4-0810-113021	E4			8-10	11/30/2021	13:30	Field Sample
ETCA-SBE4-0810-D-113021	E4			8-10	11/30/2021	13:32	Field Duplicate
ETCA-SBE4-1214-113021	E4			12-14	11/30/2021	13:33	Field Sample
ETCA-SBE5-0002-113021	E5	16	NE	0-2	11/30/2021	13:35	Field Sample
ETCA-SBE5-0002-D-113021	E5			0-2	11/30/2021	13:37	Field Duplicate
ETCA-SBE5-0406-113021	E5			4-6	11/30/2021	13:40	Field Sample
ETCA-SBE5-0810-113021	E5			8-10	11/30/2021	13:45	Field Sample
ETCA-SBE5-1214-113021	E5			12-14	11/30/2021	13:50	Field Sample
ETCA-SBF1-0002-113021	F1	16	NE	0-2	11/30/2021	14:10	Field Sample
ETCA-SBF1-0406-113021	F1			4-6	11/30/2021	14:15	Field Sample
ETCA-SBF1-0810-113021	F1			8-10	11/30/2021	14:20	Field Sample
ETCA-SBF1-1214-113021	F1			12-14	11/30/2021	14:25	Field Sample
ETCA-SBF2-0002-113021	F2	16	NE	0-2	11/30/2021	13:55	Field Sample
ETCA-SBF2-0406-113021	F2			4-6	11/30/2021	14:00	Field Sample
ETCA-SBF2-0810-113021	F2			8-10	11/30/2021	14:05	Field Sample
ETCA-SBG1-0002-113021	G1	16	NE	0-2	11/30/2021	14:30	Field Sample
ETCA-SBG1-0406-113021	G1			4-6	11/30/2021	14:35	Field Sample
ETCA-SBG1-0810-113021	G1			8-10	11/30/2021	14:40	Field Sample
ETCA-SBG1-1214-113021	G1			12-14	11/30/2021	14:45	Field Sample
ETCA-SBG1-1214-D-113021	G1			12-14	11/30/2021	14:47	Field Duplicate
ETCA-SBG2-0002-113021	G2	20	17	0-2	11/30/2021	14:50	Field Sample
ETCA-SBG2-0406-113021	G2			4-6	11/30/2021	14:55	Field Sample
ETCA-SBG2-0810-113021	G2			8-10	11/30/2021	15:00	Field Sample
ETCA-SBG2-1214-113021	G2			12-14	11/30/2021	15:05	Field Sample
ETCA-SBG3-0002-041422	G3	16	13	0-2	4/14/2022	10:38	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBG3-0406-041422	G3			4-6	4/14/2022	10:40	Field Sample
ETCA-SBG3-0406-D-041422	G3			4-6	4/14/2022	10:42	Field Duplicate
ETCA-SBG3-0810-041422	G3			8-10	4/14/2022	10:44	Field Sample
ETCA-SBG3-1214-041422	G3			12-14	4/14/2022	10:46	Field Sample
ETCA-SBH1-0002-113021	H1	16	NE	0-2	11/30/2021	15:15	Field Sample
ETCA-SBH1-0002-D-113021	H1			0-2	11/30/2021	15:17	Field Duplicate
ETCA-SBH1-0406-113021	H1			4-6	11/30/2021	15:20	Field Sample
ETCA-SBH1-0810-113021	H1			8-10	11/30/2021	15:25	Field Sample
ETCA-SBH1-1214-113021	H1			12-14	11/30/2021	15:30	Field Sample
ETCA-SBH2-0002-113021	H2	20	16	0-2	11/30/2021	15:35	Field Sample
ETCA-SBH2-0406-113021	H2			4-6	11/30/2021	15:40	Field Sample
ETCA-SBH2-0810-113021	H2			8-10	11/30/2021	15:45	Field Sample
ETCA-SBH2-1214-113021	H2			12-14	11/30/2021	15:50	Field Sample
ETCA-SBH3-0002-041422	H3	16	14	0-2	4/14/2022	11:08	Field Sample
ETCA-SBH3-0406-041422	H3			4-6	4/14/2022	11:10	Field Sample
ETCA-SBH3-0810-041422	H3			8-10	4/14/2022	11:12	Field Sample
ETCA-SBH3-1214-041422	H3			12-14	4/14/2022	11:14	Field Sample
ETCA-SBI1-0002-041422	I1	20	18	0-2	4/14/2022	12:46	Field Sample
ETCA-SBI1-0406-041422	I1			4-6	4/14/2022	12:54	Field Sample
ETCA-SBI1-0810-041422	I1			8-10	4/14/2022	12:56	Field Sample
ETCA-SBI1-1214-041422	I1			12-14	4/14/2022	13:00	Field Sample
ETCA-SBI1-1214-D-041422	I1			12-14	4/14/2022	13:02	Field Duplicate
ETCA-SBI2-0002-041422	I2	16	14	0-2	4/14/2022	12:14	Field Sample
ETCA-SBI2-0002-D-041422	I2			0-2	4/14/2022	12:16	Field Duplicate
ETCA-SBI2-0406-041422	I2			4-6	4/14/2022	12:18	Field Sample
ETCA-SBI2-0810-041422	I2			8-10	4/14/2022	12:20	Field Sample
ETCA-SBI2-1214-041422	I2			12-14	4/14/2022	12:22	Field Sample

TABLE 1
SOIL BORING SAMPLING SUMMARY

Sample ID	Soil Boring Grid	EOB (ft bgs)	Groundwater Depth (ft bgs)	Interval Sampled (ft bgs)	Sample Date	Sample Time	Sample Type
ETCA-SBI3-0002-041422	I3	16	13	0-2	4/14/2022	11:38	Field Sample
ETCA-SBI3-0406-041422	I3			4-6	4/14/2022	11:50	Field Sample
ETCA-SBI3-0810-041422	I3			8-10	4/14/2022	11:40	Field Sample
ETCA-SBI3-1214-041422	I3			12-14	4/14/2022	11:42	Field Sample
ETCA-WC1-0608-120121	GT1	24	20	6-8	12/1/2021	10:00	Field Sample
ETCA-WC1-1214-120121	GT1			12-14	12/1/2021	10:15	Field Sample
ETCA-WC2-0812-120121	GT2	20	17	8-12	12/1/2021	14:00	Field Sample
ETCA-WC2-1216-120121	GT2			12-16	12/1/2021	14:15	Field Sample
ETCA-WC2R-0812-120121	GT2	20	17	8-12	12/1/2021	15:30	Field Sample
ETCA-WC2R-1216-120121	GT2			12-16	12/1/2021	15:45	Field Sample
ETCA-WC3-0103-120121	GT3	16	15	1-3	12/1/2021	14:30	Field Sample
ETCA-WC3-0608-120121	GT3			6-8	12/1/2021	14:25	Field Sample
ETCA-IDW-S1-120121	IDW	NA	NA	NA	12/1/2021	17:00	Field Sample

Notes:

EOB – End of boring

ETCA – East Troy Contaminated Aquifer

ft bgs – Feet below ground surface

IDW – Investigation-derived waste sample

NA – Depth not applicable to investigation derived waste (IDW) sample

NE – Groundwater not encountered

SB – Soil boring

WC – Waste characterization sample

TABLE 2
WASTE CHARACTERIZATION SAMPLING SUMMARY

Soil Boring / Location	Sample ID	Sample Date / Time	Sample Depth (feet bgs)	TCLP VOCs	TCLP SVOCs	TCLP Metals incl. Mercury	Corrosivity (pH)	Reactive Cyanide	Reactive Sulfide
GT-1	ETCA-WC1-0608-120121	12/1/21 10:00	6-8	•	•	•	•	•	•
	ETCA-WC1-1214-120121	12/1/21 10:15	12-14	•	•	•	•	•	•
GT-2	ETCA-WC2-0812-120121	12/1/21 14:00	8-12	•	NP	NP	NP	NP	NP
	ETCA-WC2-1216-120121	12/1/21 14:15	12-16	•	NP	NP	NP	NP	NP
	ETCA-WC2R-0812-120121	12/1/21 15:30	8-12	NP	•	•	•	•	•
	ETCA-WC2R-1216-120121	12/1/21 15:45	12-16	NP	•	•	•	•	•
GT-3	ETCA-WC3-0103-120121	12/1/21 14:30	1-3	•	•	•	•	•	•
	ETCA-WC3-0608-120121	12/1/21 14:25	6-8	•	•	•	•	•	•
IDW-1	ETCA-IDW-S1-120121	12/1/21 17:00	NA	•	•	•	•	•	•

Notes: Soil boring GT2 had to be stepped out twice in the near vicinity due to low recovery in the sampling interval of interest. For this reason, sample collection for TCLP VOCs analysis was prioritized in the first step-out boring and the rest of the analyses in the second step-out boring

Notes

bgs – Below ground surface

ETCA – East Troy Contaminated Aquifer Site

GT – Geotechnical sample

IDW – Investigation-derived waste sample

NA – Depth not applicable to investigation derived waste (IDW) sample

NP – Analysis not performed due to limited sample recovery

SVOCs – Semivolatile organic compounds

TCLP – Toxicity characteristic leaching procedure

VOCs – Volatile organic compounds

WC – Waste characterization sample

TABLE 3
BLOW COUNT AND SPLIT SPOON RECOVERY

GT1				
Interval	Units	Blow Count	Split Spoon Recovery	Units
1 - 2.5	feet	3-2-2	2	inches
3.5 - 5	feet	1-WOH	0	inches
6 - 7.5	feet	2-1-1	6	inches
8.5 - 10	feet	2-4-7	12	inches
12 - 14	feet	NA (SHELBY TUBE COLLECTED)	22.5	inches
18.5 - 20	feet	3-2-2	1	inches

GT2				
Interval	Units	Blow Count	Split Spoon Recovery	Units
1 - 2.5	feet	2-WOH-WOH	3	inches
3.5 - 5	feet	1-WOH-1	4	inches
6 - 7.5	feet	2-1-5	4	inches
8.5 - 10	feet	1-1-1	3	inches
13.5 - 15	feet	7-8-7	5	inches

GT2R				
Interval	Units	Blow Count	Split Spoon Recovery	Units
1 - 2.5	feet	3-1-1	9	inches
3.5 - 5	feet	1-WOH-1	5	inches
6 - 7.5	feet	WOH-WOH-3	8	inches
8.5 - 10	feet	NA (SHELBY TUBE COLLECTED)	12	inches
13.5 - 15	feet	2-3-4	5	inches
18.5 - 20	feet	6-11-9	24	inches

GT3				
Interval	Units	Blow Count	Split Spoon Recovery	Units
1 - 2.5	feet	3-3-2	9	inches
3.5 - 5	feet	1-1-2	9	inches
6 - 8	feet	NA (SHELBY TUBE COLLECTED)	20	inches
8.5 - 10	feet	WOH-WOH-WOH	1	inches
13.5 - 15	feet	1-WOH-1	2	inches

Notes

GT – Geotechnical sample

NA - Not Applicable

WOH - Weight of hammer

TABLE 4
GEOTECHNICAL SAMPLING SUMMARY

Soil Boring	Sample ID	Sample Date / Time	Sample Depth (feet bgs)	USCS Class	ASTM D 698	ASTM D 854	ASTM D 2216	ASTM D 2487	ASTM D 4318	ASTM D 6913	ASTM D 4767
GT-1	ETCA-WC1-0608-120121	12/1/21 10:00	6-8	Silty Sand (SM)	●	●	●	●	●	●	●
	ETCA-WC1-1214-120121	12/1/21 10:15	12-14	Lean Clay (CL)	NP	●	●	●	●	●	●
GT-2	ETCA-WC2R-0812-120121	12/1/21 15:30	8-10	Fat Clay (CH)	NP	NP	●	●	●	●	NP
GT-3	ETCA-WC3-0103-120121	12/1/21 14:30	1-3	Clayey Sand (SC)	●	●	●	●	●	●	●
	ETCA-WC3-0608-120121	12/1/21 14:25	6-8	Lean Clay (CL)	NP	NP	●	●	●	●	NP

Notes:

At GT2, sufficient sample volume could not be obtained due to the presence of fill; therefore, only one sample was collected from cohesive (clayey) soil.

ASTM D 698, “Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))”

ASTM D 854, “Specific Gravity of Soils”

ASTM D 2216, “Laboratory Determination of Water (Moisture) Content of Soil and Rock”

ASTM D 2487, “Classification of Soils for Engineering Purposes (United Soil Classification System)”

ASTM D 4318, “Liquid Limit, Plastic Limit, and Plasticity Index of Soils”

ASTM D 6913, “Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis”

ASTM D 4767, “Consolidated-Undrained Triaxial Compression Test on Cohesive Soils”

bgs – Below ground surface

ETCA – East Troy Contaminated Aquifer Site

GT – Geotechnical sample

NP – Analysis not performed due to limited sample recovery

USCS – Unified Soil Classification System

Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBA1-0002-112921	ETCA-SBA1-0002-112921	ETCA-SBA1-0406-112921	ETCA-SBA1-0406-112921	ETCA-SBA1-0810-112921	ETCA-SBA1-0810-112921	ETCA-SBA1-1214-112921	ETCA-SBA2-0002-112921	ETCA-SBA2-0002-112921	ETCA-SBA2-0406-112921	ETCA-SBA2-0406-112921	ETCA-SBA2-0810-112921	ETCA-SBA2-1214-112921	ETCA-SBA3-0002-112921	ETCA-SBA3-0002-112921	ETCA-SBA3-0406-112921	ETCA-SBA3-0406-112921	ETCA-SBA3-0810-112921	ETCA-SBA3-0810-112921	ETCA-SBA3-1214-112921	ETCA-SBA4-0002-112921	ETCA-SBA4-0002-112921
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 09:18:00	11/29/2021 09:18:00	11/29/2021 09:25:00	11/29/2021 09:25:00	11/29/2021 09:28:00	11/29/2021 09:28:00	11/29/2021 09:30:00	11/29/2021 09:57:00	11/29/2021 09:57:00	11/29/2021 10:00:00	11/29/2021 10:00:00	11/29/2021 10:05:00	11/29/2021 10:07:00	11/29/2021 10:20:00	11/29/2021 10:20:00	11/29/2021 10:25:00	11/29/2021 10:25:00	11/29/2021 10:30:00	11/29/2021 10:30:00	11/29/2021 10:35:00	11/29/2021 10:46:00	11/29/2021 10:46:00
					Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium	Low	Medium	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium
Volatile Organic Compounds (µg/kg) CAS Number					EW9D7	EW9D7ME	EW9D8	EW9D8ME	EW9D9	EW9D9ME	EW9E0	EW9E1	EW9E1ME	EW9E2	EW9E2ME	EW9E3	EW9E4	EW9E5	EW9E5ME	EW9E6	EW9E6ME	EW9E7	EW9E7ME	EW9E8	EW9E9	EW9E9ME
Tetrachloroethene	127-18-4	24000	100000	44	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	2.0 J+	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	16 J+	160 J
Trichloroethene	79-01-6	940	6000	34	4.9 U	270 U	4.1 J+	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	5400 J+	23000
See notes					1		1		1			1		1				1		1		1				3

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
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3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
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µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
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NA = Not Available
PAL = Project Action Limit

Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBA4-0406-112921	ETCA-SBA4-0406-112921	ETCA-SBA4-0406-D-112921	ETCA-SBA4-0406-D-112921	ETCA-SBA4-0810-112921	ETCA-SBA4-1214-112921	ETCA-SBA5-0002-112921	ETCA-SBA5-0002-112921	ETCA-SBA5-0002-D-112921	ETCA-SBA5-0002-D-112921	ETCA-SBA5-0406-112921	ETCA-SBA5-0810-112921	ETCA-SBA5-1214-112921	ETCA-SBB1-0002-112921	ETCA-SBB1-0002-112921	ETCA-SBB1-0002-D-112921	ETCA-SBB1-0002-D-112921	ETCA-SBB1-0406-112921	ETCA-SBB1-0810-112921	ETCA-SBB1-1214-112921	ETCA-SBB2-0002-112921	ETCA-SBB2-0002-112921
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 10:50:00	11/29/2021 10:50:00	11/29/2021 10:55:00	11/29/2021 10:55:00	11/29/2021 11:00:00	11/29/2021 11:05:00	11/29/2021 11:15:00	11/29/2021 11:15:00	11/29/2021 11:17:00	11/29/2021 11:17:00	11/29/2021 11:20:00	11/29/2021 11:25:00	11/29/2021 11:30:00	11/29/2021 14:05:00	11/29/2021 14:05:00	11/29/2021 14:07:00	11/29/2021 14:07:00	11/29/2021 14:10:00	11/29/2021 14:25:00	11/29/2021 14:30:00	11/29/2021 13:40:00	11/29/2021 13:40:00
					Low	Medium	Low	Medium	Low	Low	Low	Medium	Low	Medium	Low	Low	Low	Low	Medium	Low	Medium	Low	Low	Low	Low	Medium
Volatile Organic Compounds (µg/kg)	CAS Number				EW9F0	EW9F0ME	EW9F1	EW9F1ME	EW9F2	EW9F3	EW9F4	EW9F4ME	EW9F5	EW9F5ME	EW9F6	EW9F7	EW9F8	EW9H7	EW9H7ME	EW9H8	EW9H8ME	EW9H9	EW9J0	EW9J1	EW9H3	EW9H3ME
Tetrachloroethene	127-18-4	24000	100000	44	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	11 J	1100	350 J+	1700	88	1.4 J	3.2 J	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	15 J+	290 J
Trichloroethene	79-01-6	940	6000	34	88 J+	1300	63	1700	6.1 U	7.2 U	11 J	410 J	150 J+	550	44 J	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	4.7 J+	610 U
See notes					1	3	1	3				3		3				1		1					1	3

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

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Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

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		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 13:45:00	11/29/2021 13:45:00	11/29/2021 13:50:00	11/29/2021 13:50:00	11/29/2021 13:55:00	11/29/2021 13:10:00	11/29/2021 13:10:00	11/29/2021 13:12:00	11/29/2021 13:12:00	11/29/2021 13:15:00	11/29/2021 13:15:00	11/29/2021 13:20:00	11/29/2021 13:22:00	11/29/2021 13:22:00	11/29/2021 13:25:00	11/29/2021 13:25:00	11/29/2021 12:45:00	11/29/2021 12:45:00	11/29/2021 12:50:00	11/29/2021 12:50:00	11/29/2021 12:55:00	11/29/2021 13:00:00		
					Low	Medium	Low	Medium	Low	Low	Medium	Low	Medium	Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Low
					EW9H4	EW9H4ME	EW9H5	EW9H5ME	EW9H6	EW9G7	EW9G7ME	EW9G8	EW9G8ME	EW9G9	EW9G9ME	EW9H0	EW9H1	EW9H1ME	EW9H2	EW9H2ME	EW9G3	EW9G3ME	EW9G4	EW9G4ME	EW9G5	EW9G6		
Volatile Organic Compounds (µg/kg)	CAS Number				21 J+	680 U	19	240 J	6.1 U	22 J+	460 U	27 J+	320 J	45 J+	220 J	5.0 J	5.6 J	650	2.3 J+	310 U	10 J+	460 U	27 J+	160 J	7.0 U	5.6 U		
Tetrachloroethene	127-18-4	24000	100000	44																								
Trichloroethene	79-01-6	940	6000	34	11 J+	680 U	18	560	6.1 U	1100 J+	690 J	1100 J+	12000 J	220 J+	440 J	5.5 J	7.6	1700	1.9 J+	310 U	1200 J+	3000	910 J+	4000	1.4 J	5.6 U		
See notes					1			3			1, 2			3			3, 2			3			1			3		

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
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Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
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Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBB5-0002-112921	ETCA-SBB5-0002-112921	ETCA-SBB5-0406-112921	ETCA-SBB5-0406-112921	ETCA-SBB5-0810-112921	ETCA-SBB5-1214-112921	ETCA-SBB6-0002-041422	ETCA-SBB6-0406-041422	ETCA-SBB6-0810-041422	ETCA-SBB6-1214-041422	ETCA-SBB7-0002-041422	ETCA-SBB7-0406-041422	ETCA-SBB7-0810-041422	ETCA-SBB7-1214-041422	ETCA-SBC1-0002-112921	ETCA-SBC1-0002-112921	ETCA-SBC1-0406-112921	ETCA-SBC1-0406-112921	ETCA-SBC1-0810-112921	ETCA-SBC1-1214-112921	ETCA-SBC2-0002-112921	ETCA-SBC2-0406-112921	
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 11:50:00	11/29/2021 11:50:00	11/29/2021 11:55:00	11/29/2021 11:55:00	11/29/2021 12:00:00	11/29/2021 12:05:00	04/14/2022 10:00:00	04/14/2022 10:02:00	04/14/2022 10:06:00	04/14/2022 10:08:00	04/14/2022 09:12:00	04/14/2022 09:22:00	04/14/2022 09:36:00	11/29/2021 14:50:00	11/29/2021 14:50:00	11/29/2021 15:05:00	11/29/2021 15:05:00	11/29/2021 15:10:00	11/29/2021 15:10:00	11/29/2021 15:25:00			
					Low	Medium	Low	Medium	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	
					EW9F9	EW9F9ME	EW9G0	EW9G0ME	EW9G1	EW9G2	EX8Q1	EX8Q2	EX8Q3	EX8Q4	EX8Q5	EX8Q6	EX8Q7	EX8Q8	EW9J2	EW9J2ME	EW9J5	EW9J5ME	EW9J3	EW9J4	EW9J6	EW9J7	
Volatile Organic Compounds (µg/kg) CAS Number																											
Tetrachloroethene		127-18-4	24000	100000	44	13 J+	84 J	6.0 J+	330 J	4.7 U	3.0 J	6.0 UJ	30 J	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U
Trichloroethene		79-01-6	940	6000	34	8.8 J+	310 U	160 J+	3200	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	4.2 J	5.7 U	2.0 J	2.7 J
See notes						1	3	3											1	1							

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

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Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
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East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBC2-0809-112921	ETCA-SBC3-0002-112921	ETCA-SBC3-0002-112921	ETCA-SBC3-0002-D-112921	ETCA-SBC3-0002-D-112921	ETCA-SBC3-0406-112921	ETCA-SBC3-0406-112921	ETCA-SBC3-0810-112921	ETCA-SBC3-0810-112921	ETCA-SBC3-1214-112921	ETCA-SBC4-0002-112921	ETCA-SBC4-0002-112921	ETCA-SBC4-0406-112921	ETCA-SBC4-0810-112921	ETCA-SBC4-0810-112921	ETCA-SBC4-1214-112921	ETCA-SBC5-0002-113021	ETCA-SBC5-0002-113021	ETCA-SBC5-0406-113021	ETCA-SBC5-0810-113021	ETCA-SBC5-1214-113021	ETCA-SBD1-0002-113021	
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 15:35:00	11/29/2021 15:45:00	11/29/2021 15:45:00	11/29/2021 15:47:00	11/29/2021 15:47:00	11/29/2021 15:50:00	11/29/2021 15:50:00	11/29/2021 15:55:00	11/29/2021 15:55:00	11/29/2021 16:00:00	11/29/2021 16:05:00	11/29/2021 16:10:00	11/29/2021 16:15:00	11/29/2021 16:20:00	11/30/2021 09:10:00	11/30/2021 09:10:00	11/30/2021 09:15:00	11/30/2021 09:20:00	11/30/2021 09:25:00	11/30/2021 10:50:00			
					Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Low	Low	Low	Low	
					EW9J8	EW9J9	EW9J9ME	EW9K0	EW9K0ME	EW9K1	EW9K1ME	EW9K2	EW9K2ME	EW9K3	EW9K4	EW9K4ME	EW9K5	EW9K6	EW9K6ME	EW9K7	EW9K8	EW9K8ME	EW9K9	EW9L0	EW9L1	EW9M9	
Volatile Organic Compounds (µg/kg) CAS Number																											
Tetrachloroethene		127-18-4	24000	100000	44	2.9 J	7.5 J	200 J	9.2	270 J	2.9 J	360 U	12	7800 J+	41	26	1900 J+	26	520 J+	17000 J+	2 J	3700 J+	1200	5.7 U	5.2 U	4.6	6.3 U
Trichloroethene		79-01-6	940	6000	34	31	2100	14000 J	2400	270000 J	870	24000	300	320000	2700	84000	210	4700 J+	130000	53000 J+	6200	1.5 J	5.2 U	4.6 U	6.3 U		
See notes						3			3			1			3			3			3			1			

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)
UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBD1-0002-113021	ETCA-SBD1-0002-D-113021	ETCA-SBD1-0406-113021	ETCA-SBD1-0810-113021	ETCA-SBD1-0810-113021	ETCA-SBD1-1214-113021	ETCA-SBD1-1214-113021	ETCA-SBD2-0002-113021	ETCA-SBD2-0002-113021	ETCA-SBD2-0406-113021	ETCA-SBD2-0406-113021	ETCA-SBD2-0810-113021	ETCA-SBD2-0810-113021	ETCA-SBD2-1214-113021	ETCA-SBD2-1214-113021	ETCA-SBD2-0002-113021	ETCA-SBD2-0002-113021	ETCA-SBD2-0406-113021	ETCA-SBD2-0406-113021	ETCA-SBD2-0810-113021	ETCA-SBD2-0810-113021	ETCA-SBD2-1214-113021	ETCA-SBD2-1214-113021	ETCA-SBD3-0002-113021	ETCA-SBD3-0002-113021	ETCA-SBD3-0406-113021	ETCA-SBD3-0406-113021	ETCA-SBD3-0810-113021	ETCA-SBD3-0810-113021	ETCA-SBD3-1214-113021	ETCA-SBD3-1214-113021	ETCA-SBD4-0002-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 10:50:00	11/30/2021 10:52:00	11/30/2021 10:55:00	11/30/2021 11:00:00	11/30/2021 11:00:00	11/30/2021 11:05:00	11/30/2021 11:05:00	11/30/2021 10:30:00	11/30/2021 10:30:00	11/30/2021 10:35:00	11/30/2021 10:40:00	11/30/2021 10:40:00	11/30/2021 10:45:00	11/30/2021 10:10:00	11/30/2021 10:10:00	11/30/2021 10:15:00	11/30/2021 10:20:00	11/30/2021 10:20:00	11/30/2021 10:25:00	11/30/2021 09:50:00												
					Medium	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Low											
					EW9M9ME	EW9N0	EW9N1	EX887	EX887ME	EX888	EX888ME	EW9M5	EW9M5ME	EW9M6	EW9M6ME	EW9M7	EW9M7ME	EW9M8	EW9M1	EW9M1ME	EW9M2	EW9M2ME	EW9M3	EW9M3ME	EW9M4	EW9L6										
Volatile Organic Compounds (µg/kg)		CAS Number																																		
Tetrachloroethene		127-18-4	24000	100000	44	370 U	5.9 U	5.4 U	75	190 J	6.1 U	380 U	9.4 J+	210 J	5.3	310 U	76	600	8	12000 J+	16000	6100 J+	180000	550	1800	150	3600 J+									
Trichloroethene		79-01-6	940	6000	34	370 U	5.9 U	5.4 U	19	450 U	6.1 U	380 U	610 J+	9900	68	310 U	220	1600	2.7 J	20000 J+	10000	17000 J+	380000	540	530	13	1700 J+									
See notes									1	3	1		3	1		3		2		2		3	2	3		2										

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
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3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
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UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBD4-0002-113021	ETCA-SBD4-0002-D-113021	ETCA-SBD4-0002-D-113021	ETCA-SBD4-0406-113021	ETCA-SBD4-0406-113021	ETCA-SBD4-0810-113021	ETCA-SBD4-1214-113021	ETCA-SBD4-1214-113021	ETCA-SBD5-0002-113021	ETCA-SBD5-0406-113021	ETCA-SBD5-0406-113021	ETCA-SBD5-0810-113021	ETCA-SBD5-1214-113021	ETCA-SBE1-0002-113021	ETCA-SBE1-0002-113021	ETCA-SBE1-0406-113021	ETCA-SBE1-0406-113021	ETCA-SBE1-0810-113021	ETCA-SBE1-1214-113021	ETCA-SBE1-1214-113021	ETCA-SBE2-0002-113021	ETCA-SBE2-0002-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 09:50:00	11/30/2021 09:52:00	11/30/2021 09:52:00	11/30/2021 09:55:00	11/30/2021 09:55:00	11/30/2021 10:00:00	11/30/2021 10:05:00	11/30/2021 10:05:00	11/30/2021 09:30:00	11/30/2021 09:35:00	11/30/2021 09:35:00	11/30/2021 09:40:00	11/30/2021 09:45:00	11/30/2021 11:10:00	11/30/2021 11:10:00	11/30/2021 11:15:00	11/30/2021 11:15:00	11/30/2021 11:20:00	11/30/2021 11:20:00	11/30/2021 11:30:00	11/30/2021 11:50:00	11/30/2021 11:50:00
					Medium	Low	Medium	Low	Medium	Low	Low	Medium	Low	Low	Medium	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium
Volatile Organic Compounds (µg/kg) CAS Number		EW9L6ME	EW9L7	EW9L7ME	EW9L8	EW9L8ME	EW9L9	EW9M0	EW9M0ME	EW9L2	EW9L3	EW9L3ME	EW9L4	EW9L5	EX889	EX889ME	EX890	EX890ME	EX891	EX891ME	EX892	EX893	EX893ME			
Tetrachloroethene	127-18-4	24000	100000	44	5100	2600 J+	7600	4300	11000	46	53	230	4.7 J	3000 J+	12000	35	47	5.8 U	320 U	7 J+	410 U	10 UJ	480 U	8 U	4800 J+	6400
Trichloroethene	79-01-6	940	6000	34	1500	1300 J+	2200	300	760	5.4 U	0.74 J	230 U	6.1	390 J+	2100	5.3 U	4.7 U	5.8 U	320 U	10 J+	410 U	10 UJ	480 U	8 U	5800 J+	3300
See notes					2	3, 2		3			1	3			3			1			1			1	2	2

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
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3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

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Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBE2-0002-D-113021	ETCA-SBE2-0002-D-113021	ETCA-SBE2-0406-113021	ETCA-SBE2-0406-113021	ETCA-SBE2-0810-113021	ETCA-SBE2-1214-113021	ETCA-SBE3-0002-113021	ETCA-SBE3-0406-113021	ETCA-SBE3-0406-113021	ETCA-SBE3-0810-113021	ETCA-SBE3-0810-113021	ETCA-SBE3-1214-113021	ETCA-SBE3-1214-113021	ETCA-SBE4-0002-113021	ETCA-SBE4-0002-113021	ETCA-SBE4-0406-113021	ETCA-SBE4-0406-113021	ETCA-SBE4-0810-113021	ETCA-SBE4-0810-113021	ETCA-SBE4-0810-D-113021	ETCA-SBE4-0810-D-113021	ETCA-SBE4-1214-113021		
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 11:52:00	11/30/2021 11:52:00	11/30/2021 11:55:00	11/30/2021 11:55:00	11/30/2021 12:00:00	11/30/2021 12:05:00	11/30/2021 13:00:00	11/30/2021 13:05:00	11/30/2021 13:05:00	11/30/2021 13:10:00	11/30/2021 13:10:00	11/30/2021 13:15:00	11/30/2021 13:15:00	11/30/2021 13:20:00	11/30/2021 13:20:00	11/30/2021 13:25:00	11/30/2021 13:25:00	11/30/2021 13:30:00	11/30/2021 13:30:00	11/30/2021 13:32:00	11/30/2021 13:32:00	11/30/2021 13:33:00		
					Low	Medium	Low	Medium	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	
					EX894	EX894ME	EX895	EX895ME	EX896	EX897	EX898	EX899	EX899ME	EX8A0	EX8A0ME	EX8A1	EX8A1ME	EX8A2	EX8A2ME	EX8A3	EX8A3ME	EX8A4	EX8A4ME	EX8A5	EX8A5ME	EX8A6		
Volatile Organic Compounds (µg/kg)		CAS Number																										
Tetrachloroethene		127-18-4	24000	100000	44	3500 J+	6900	260	2300	4.6 U	1.2 J	1.8 J	1100 J+	3600	380 J+	1600	1500 J+	7100	1900 J+	22000	480 J+	4400 J+	650 J+	1300	1000 J+	1500	390 J+	
Trichloroethene		79-01-6	940	6000	34	2800 J+	3900	90	400	1.3 J	1.6 J	2.9 J	73 J+	410 U	3.2 J+	370 U	77 J+	1100	230 J+	4600	3.0 J+	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ	
See notes					2		3		1		3		1		3		3		1		3		1		2		1	

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
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Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBE4-1214-113021	ETCA-SBE5-0002-113021	ETCA-SBE5-0002-113021	ETCA-SBE5-0002-D-113021	ETCA-SBE5-0002-D-113021	ETCA-SBE5-0406-113021	ETCA-SBE5-0406-113021	ETCA-SBE5-0810-113021	ETCA-SBE5-1214-113021	ETCA-SBF1-0002-113021	ETCA-SBF1-0002-113021	ETCA-SBF1-0406-113021	ETCA-SBF1-0406-113021	ETCA-SBF1-0810-113021	ETCA-SBF1-1214-113021	ETCA-SBF2-0002-113021	ETCA-SBF2-0002-113021	ETCA-SBF2-0406-113021	ETCA-SBF2-0810-113021	ETCA-SBG1-0002-113021	ETCA-SBG1-0002-113021	ETCA-SBG1-0406-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 13:33:00	11/30/2021 13:35:00	11/30/2021 13:35:00	11/30/2021 13:37:00	11/30/2021 13:37:00	11/30/2021 13:40:00	11/30/2021 13:40:00	11/30/2021 13:45:00	11/30/2021 13:50:00	11/30/2021 14:10:00	11/30/2021 14:10:00	11/30/2021 14:15:00	11/30/2021 14:15:00	11/30/2021 14:20:00	11/30/2021 14:25:00	11/30/2021 13:55:00	11/30/2021 13:55:00	11/30/2021 14:00:00	11/30/2021 14:05:00	11/30/2021 14:30:00	11/30/2021 14:30:00	11/30/2021 14:35:00
		Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium	Low	Medium	Low	Medium	Low	Low	Low	Medium	Low	Low	Low	Medium	Low
Volatile Organic Compounds (µg/kg) CAS Number		EX8A6ME	EX8A7	EX8A7ME	EX8A8	EX8A8ME	EX8A9	EX8A9ME	EX8B0	EX8B1	EX8B5	EX8B5ME	EX8B6	EX8B6ME	EX8B7	EX8B8	EX8B2	EX8B2ME	EX8B3	EX8B4	EX8B9	EX8B9ME	EX8C0			
Tetrachloroethene	127-18-4	24000	100000	44	670	110 J+	1600 J	49 J+	310 J	890 J+	1700	23	24	6.6 J+	120 J	4.9	82 J	3.6 J	4.9 U	450 J+	4100	72	87	1300 J+	5100	11
Trichloroethene	79-01-6	940	6000	34	350 U	22000 J+	45000 J	5500 J+	10000 J	590 J+	450	0.94 J	7.2 U	5.2 UJ	360 U	3.4 J	280 U	5 U	4.9 U	57 J+	360	1.8 J	6.3	10000 J+	19000	2.8 J
See notes					2		3, 2		3, 2	2	2			1	3	1	3			3				3, 2		

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

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Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBG1-0810-113021	ETCA-SBG1-1214-113021	ETCA-SBG1-1214-D-113021	ETCA-SBG2-0002-113021	ETCA-SBG2-0002-113021	ETCA-SBG2-0406-113021	ETCA-SBG2-0406-113021	ETCA-SBG2-0810-113021	ETCA-SBG2-1214-113021	ETCA-SBG3-0002-041422	ETCA-SBG3-0406-041422	ETCA-SBG3-0406-D-041422	ETCA-SBG3-0810-041422	ETCA-SBG3-1214-041422	ETCA-SBH1-0002-113021	ETCA-SBH1-0002-113021	ETCA-SBH1-0002-D-113021	ETCA-SBH1-0002-D-113021	ETCA-SBH1-0406-113021	ETCA-SBH1-0810-113021	ETCA-SBH1-1214-113021	ETCA-SBH2-0002-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 14:40:00	11/30/2021 14:45:00	11/30/2021 14:47:00	11/30/2021 14:50:00	11/30/2021 14:50:00	11/30/2021 14:55:00	11/30/2021 14:55:00	11/30/2021 15:00:00	11/30/2021 15:05:00	04/14/2022 10:38:00	04/14/2022 10:40:00	04/14/2022 10:42:00	04/14/2022 10:44:00	04/14/2022 10:46:00	11/30/2021 15:15:00	11/30/2021 15:15:00	11/30/2021 15:17:00	11/30/2021 15:17:00	11/30/2021 15:20:00	11/30/2021 15:25:00	11/30/2021 15:30:00	11/30/2021 15:35:00
					Low	Low	Low	Low	Medium	Low	Medium	Low	Low	Low	Low	Low	Low	Low	Low	Medium	Low	Medium	Low	Low	Low	Low
Volatile Organic Compounds (µg/kg)	CAS Number				EX8C1	EX8C2	EX8C3	EX8C4	EX8C4ME	EX8C5	EX8C5ME	EX8C6	EX8C7	EX8Q9	EX8R0	EX8R1	EX8R2	EX8R3	EX8C8	EX8C8ME	EX8C9	EX8C9ME	EX8D0	EX8D1	EX8D2	EX8D3
Tetrachloroethene	127-18-4	24000	100000	44	23	17 J	9.5 J	410 J+	2200	210 J+	1800	42	15	28 J	21 J	27 J	18 J	12 J	26 J+	1800 J	13 J+	840 J	5.1 U	6.1 U	6.5 U	6.5 UJ
Trichloroethene	79-01-6	940	6000	34	5.8 U	5.6 U	5 U	280 J+	580	230 J+	1200	2.8 J	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	1900 J+	46000	1500 J+	61000	5.1 U	6.1 U	6.5 U	3.6 J+
See notes								3, 2		3									3		3				1	

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)
UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 5 - PDI Summary of Soil Sampling Analytical Results: PCE and TCE
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBH2-0002-113021	ETCA-SBH2-0406-113021	ETCA-SBH2-0810-113021	ETCA-SBH2-1214-113021	ETCA-SBH3-0002-041422	ETCA-SBH3-0406-041422	ETCA-SBH3-0810-041422	ETCA-SBH3-1214-041422	ETCA-SBH1-0002-041422	ETCA-SBH1-0406-041422	ETCA-SBH1-0810-041422	ETCA-SBH1-1214-041422	ETCA-SBH1-1214-D-041422	ETCA-SBI2-0002-041422	ETCA-SBI2-0002-D-041422	ETCA-SBI2-0406-041422	ETCA-SBI2-0810-041422	ETCA-SBI2-1214-041422	ETCA-SBI3-0002-041422	ETCA-SBI3-0406-041422	ETCA-SBI3-0810-041422	ETCA-SBI3-1214-041422
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 15:35:00	11/30/2021 15:40:00	11/30/2021 15:45:00	11/30/2021 15:50:00	04/14/2022 11:08:00	04/14/2022 11:10:00	04/14/2022 11:12:00	04/14/2022 11:14:00	04/14/2022 12:46:00	04/14/2022 12:54:00	04/14/2022 12:56:00	04/14/2022 13:00:00	04/14/2022 13:02:00	04/14/2022 12:14:00	04/14/2022 12:16:00	04/14/2022 12:18:00	04/14/2022 12:20:00	04/14/2022 12:22:00	04/14/2022 11:38:00	04/14/2022 11:50:00	04/14/2022 11:40:00	04/14/2022 11:42:00
					Medium	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Volatile Organic Compounds (µg/kg)	CAS Number				EX8D3ME	EX8D4	EX8D5	EX8D6	EX8R4	EX8R5	EX8R6	EX8R7	EX8R8	EX8R9	EX8S0	EX8S1	EX8S2	EX8S3	EX8S4	EX8S5	EX8S6	EX8S7	EX8S8	EX8S9	EX8T0	EX8T1
Tetrachloroethene	127-18-4	24000	100000	44	410 U	12 U	6.3 U	4.7 U	16 J	52 J	210 J	48 J	4.6 J+	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	3.2 J	1.9 J	3.9 UJ	6.5 UJ	36 J	13 J	5.2 J
Trichloroethene	79-01-6	940	6000	34	410 U	34	4.3 J	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	130 J+	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	1.0 J	4.7 UJ	8.0 J	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ
See notes																										

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)
UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBA1-0002-112921	ETCA-SBA1-0002-112921	ETCA-SBA1-0406-112921	ETCA-SBA1-0406-112921	ETCA-SBA1-0810-112921	ETCA-SBA1-0810-112921	ETCA-SBA1-1214-112921	ETCA-SBA2-0002-112921	ETCA-SBA2-0002-112921	ETCA-SBA2-0406-112921	ETCA-SBA2-0406-112921	ETCA-SBA2-0810-112921	ETCA-SBA2-1214-112921	ETCA-SBA3-0002-112921	ETCA-SBA3-0002-112921	ETCA-SBA3-0406-112921	ETCA-SBA3-0406-112921	ETCA-SBA3-0810-112921	ETCA-SBA3-0810-112921	ETCA-SBA3-1214-112921	ETCA-SBA4-0002-112921	ETCA-SBA4-0002-112921	
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 09:18:00	11/29/2021 09:18:00	11/29/2021 09:25:00	11/29/2021 09:25:00	11/29/2021 09:28:00	11/29/2021 09:28:00	11/29/2021 09:30:00	11/29/2021 09:30:00	11/29/2021 09:57:00	11/29/2021 09:57:00	11/29/2021 10:00:00	11/29/2021 10:00:00	11/29/2021 10:05:00	11/29/2021 10:07:00	11/29/2021 10:20:00	11/29/2021 10:20:00	11/29/2021 10:25:00	11/29/2021 10:25:00	11/29/2021 10:30:00	11/29/2021 10:30:00	11/29/2021 10:35:00	11/29/2021 10:35:00	11/29/2021 10:46:00
					Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low
					EW9D7	EW9D7ME	EW9D8	EW9D8ME	EW9D9	EW9D9ME	EW9E0	EW9E1	EW9E1ME	EW9E2	EW9E2ME	EW9E3	EW9E4	EW9E5	EW9E5ME	EW9E6	EW9E6ME	EW9E7	EW9E7ME	EW9E8	EW9E9	EW9E9ME	
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
1,1-Dichloroethene	75-35-4	230000	1000000	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 UJ	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 UJ	7.0 UJ	360 U	7.4 UJ	380 U	5.4 U	310 U	4.8 UJ	12 UJ	620 U	
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	11 J+	200 J	R	480 U	3.3 J+	620 U	5.6 U	6.1 UJ	230 J	5.8 UJ	420 U	7.1 U	5.6 U	5.7 J+	340 J	2.2 J+	380 U	2.3 J+	310 U	4.8 U	61 J+	1300	
1,2-Dichloroethane	107-06-2	460	2000	NA	4.1 J	270 U	8.8 J+	480 U	9.6 U	620 U	5.6 U	3.1 J	520 U	5.8 U	420 U	7.1 U	5.6 U	16 J+	360 U	9.0	380 U	1.2 J	310 U	4.8 U	12 J+	620 U	
1,2-Dichloropropane	78-87-5	2500	11000	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	3.5 J+	64 J	R	480 U	1.9 J+	620 U	5.6 U	1.5 J+	520 U	5.8 UJ	420 U	7.1 U	5.6 U	2.1 J+	93 J	1.2 J+	380 U	1.0 J+	310 U	4.8 U	14 J+	270 J	
2-Butanone	78-93-3	27000000	190000000	NA	9.8 U	550 U	15 U	960 U	19 U	1200 U	11 U	12 U	1000 U	12 U	840 U	14 U	11 U	14 UJ	710 U	15 U	770 U	11 U	620 U	9.6 U	25 UJ	1200 U	
2-Hexanone	591-78-6	200000	1300000	NA	9.8 U	550 U	15 UJ	960 U	19 UJ	1200 U	11 U	12 UJ	1000 U	12 U	840 U	14 U	11 U	14 UJ	710 U	15 U	770 U	11 U	620 U	9.6 U	R	1200 U	
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	9.8 U	550 U	15 UJ	960 U	19 UJ	1200 U	11 U	12 UJ	1000 U	12 U	840 U	14 U	11 U	9.2 J+	710 U	15 U	770 U	11 U	620 U	9.6 U	R	1200 U	
Acetone	67-64-1	70000000	1100000000	NA	9.8 U	210 J	34 J+	960 U	24	1200 U	11 U	15	1000 U	17	840 U	10 J	19	30 J+	290 J	21	770 U	14	620 U	9.6 U	87 J+	520 J	
Benzene	71-43-2	1200	5100	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	71 J	7.4 U	380 U	19	85 J	4.8 U	100 J+	590 J	
Bromodichloromethane	75-27-4	290	1300	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
Carbon disulfide	75-15-0	770000	3500000	NA	4.9 U	270 U	17	82 J	9.6 U	620 U	5.6 U	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 U	3.7 J+	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	22 J+	620 U	
Chloroethane	75-00-3	5400000	23000000	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 U	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	12 UJ	620 U	
Chloroform	67-66-3	320	1400	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 U	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	12 UJ	620 U	
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 UJ	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 UJ	7.0 UJ	360 U	7.4 UJ	380 U	5.4 U	310 U	4.8 UJ	12 UJ	620 U	
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
Cyclohexane	110-82-7	6500000	27000000	NA	4.9 U	300	7.3 UJ	480 U	4.7 J+	620 U	5.6 U	6.1 UJ	330 J	5.8 U	420 U	7.1 U	5.6 U	4.6 J+	570	7.4 U	380 U	5.4 U	310 U	4.8 U	47 J+	1700	
Ethylbenzene	100-41-4	5800	25000	NA	1.4 J	60 J	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	1.3 J+	93 J	5.8 U	420 U	7.1 U	5.6 U	4.3 J+	180 J	7.4 U	380 U	5.4 U	310 U	4.8 U	29 J+	630	
Isopropylbenzene	98-82-8	1900000	9900000	NA	1.2 J+	54 J	R	480 U	R	620 U	5.6 U	R	100 J	5.8 UJ	420 U	7.1 U	5.6 U	3.5 J+	100 J	7.4 UJ	380 U	5.4 UJ	310 U	4.8 U	37 J+	510 J	
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	5.2	310	1.8 J+	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	340 J	5.8 U	420 U	7.1 U	5.6 U	16 J+	970	2.7 J	76 J	3.2 J	73 J	4.8 U	110 J+	2400	
Methyl Acetate	79-20-9	78000000	1200000000	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 U	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	12 UJ	620 U	
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	2.0 J+	1100	7.3 UJ	480 U	9.2 J+	620 U	5.6 U	1.9 J+	1100	5.8 U	420 U	7.1 U	5.6 U	11 J+	2100	7.4 U	150 J	1.6 J+	310 U	4.8 U	110 J+	5600	
Methylene chloride	75-09-2	57000	1000000	NA	8.5	270 U	19 J+	480 U	20	620 U	5.6 U	11	520 U	11	420 U	7.1 U	5.6 U	23 J+	360 U	14	380 U	9.6	310 U	4.8 U	25 J+	620 U	
o-Xylene	95-47-6	640000	2800000	NA	2.5 J	260 J	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	1.5 J+	330 J	5.8 U	420 U	7.1 U	5.6 U	8.8 J+	650	7.4 U	380 U	1.5 J	310 U	4.8 U	81 J+	2300	
Styrene	100-42-5	6000000	35000000	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	18	230 J	5.4 U	310 U	4.8 U	R	620 U	
Tetrachloroethene	127-18-4	24000	100000	44	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	2.0 J+	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	16 J+	160 J	
Toluene	108-88-3	4900000	47000000	NA	4.9	220 J	3.3 J+	95 J	4.7 J+	620 U	5.6 U	3.4 J+	280 J	5.8 U	420 U	7.1 U	5.6 U	21 J+	530	8.8	210 J	7.8	120 J	4.8 U	200 J+	3000	
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 UJ	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 UJ	7.0 UJ	360 U	7.4 UJ	380 U	5.4 U	310 U	4.8 UJ	12 UJ	620 U	
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	4.9 U	270 U	7.3 UJ	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	R	620 U	
Trichloroethene	79-01-6	940	6000	34	4.9 U	270 U	4.1 J+	480 U	9.6 UJ	620 U	5.6 U	6.1 UJ	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	5400 J+	23000	
Vinyl chloride	75-01-4	59	1700	NA	4.9 U	270 U	7.3 U	480 U	9.6 U	620 U	5.6 U	6.1 U	520 U	5.8 U	420 U	7.1 U	5.6 U	7.0 UJ	360 U	7.4 U	380 U	5.4 U	310 U	4.8 U	12 UJ	620 U	
See notes					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)
UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBA4-0406-112921	ETCA-SBA4-0406-112921	ETCA-SBA4-0406-D-112921	ETCA-SBA4-0406-D-112921	ETCA-SBA4-0810-112921	ETCA-SBA4-1214-112921	ETCA-SBA5-0002-112921	ETCA-SBA5-0002-112921	ETCA-SBA5-0002-D-112921	ETCA-SBA5-0002-D-112921	ETCA-SBA5-0406-112921	ETCA-SBA5-0810-112921	ETCA-SBA5-1214-112921	ETCA-SBA5-1214-112921	ETCA-SBB1-0002-112921	ETCA-SBB1-0002-112921	ETCA-SBB1-0002-D-112921	ETCA-SBB1-0002-D-112921	ETCA-SBB1-0406-112921	ETCA-SBB1-0810-112921	ETCA-SBB1-1214-112921	ETCA-SBB2-0002-112921	ETCA-SBB2-0002-112921					
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 10:50:00	11/29/2021 10:50:00	11/29/2021 10:55:00	11/29/2021 10:55:00	11/29/2021 11:00:00	11/29/2021 11:05:00	11/29/2021 11:15:00	11/29/2021 11:20:00	11/29/2021 11:25:00	11/29/2021 11:30:00	11/29/2021 11:35:00	11/29/2021 11:40:00	11/29/2021 11:45:00	11/29/2021 11:50:00	11/29/2021 11:55:00	11/29/2021 12:00:00	11/29/2021 12:05:00	11/29/2021 12:10:00	11/29/2021 12:15:00	11/29/2021 12:20:00	11/29/2021 12:25:00	11/29/2021 12:30:00	11/29/2021 12:35:00	11/29/2021 12:40:00				
					Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium
					EW9F0	EW9F0ME	EW9F1	EW9F1ME	EW9F2	EW9F3	EW9F4	EW9F4ME	EW9F5	EW9F5ME	EW9F6	EW9F7	EW9F8	EW9H7	EW9H7ME	EW9H8	EW9H8ME	EW9H9	EW9J0	EW9J1	EW9H3	EW9H3ME						
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
1,1-Dichloroethene	75-35-4	230000	1000000	NA	6.3 U	370 U	6.3 U	370 U	6.1 UJ	7.2 UJ	8.0 U	430 U	10 U	480 U	5.2 U	4.8 UJ	5.4 UJ	8.0 UJ	410 U	9.4 UJ	450 U	8.7 UJ	7.4 U	5.4 U	11 UJ	610 U						
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	R	370 U	6.3 UJ	370 U	6.1 U	7.2 U	2.1 J+	200 J	7.7 J+	270 J	5.2 UJ	4.8 U	5.4 U	2.7 J+	410 U	9.4 UJ	450 U	8.7 U	6.6 J	5.4 U	5.4 J+	360 J	610 U					
1,2-Dichloroethane	107-06-2	460	2000	NA	7.9	370 U	6.4	370 U	6.1 U	7.2 U	8.7	430 U	13	480 U	5.2 U	4.8 U	5.4 U	6.6 J	410 U	7.7 J	450 U	2.3 J-	2.0 J	5.4 U	11 J+	610 U						
1,2-Dichloropropane	78-87-5	2500	11000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	R	370 U	6.3 UJ	370 U	6.1 U	7.2 U	R	430 U	3.3 J+	88 J	5.2 UJ	4.8 U	5.4 U	8.0 UJ	410 U	9.4 UJ	450 U	8.7 U	3.8 J	5.4 U	2.3 J+	90 J	610 U					
2-Butanone	78-93-3	27000000	190000000	NA	13 U	730 U	13 U	740 U	12 U	14 U	16 U	850 U	21 U	960 U	10 U	9.6 U	11 U	16 U	830 U	19 U	890 U	17 U	15 U	11 U	21 UJ	1200 U						
2-Hexanone	591-78-6	200000	1300000	NA	13 UJ	730 U	13 U	740 U	12 U	14 U	16 U	850 U	21 UJ	960 U	10 U	9.6 U	11 U	16 U	830 U	19 UJ	890 U	17 U	15 U	11 U	R	1200 U						
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	13 UJ	730 U	13 U	740 U	12 U	14 U	16 U	850 U	21 UJ	960 U	10 U	9.6 U	11 U	16 U	830 U	19 UJ	890 U	17 U	15 U	11 U	15 J+	1200 U						
Acetone	67-64-1	70000000	1100000000	NA	14	730 U	8.3 J	740 U	12 U	14 U	18	850 U	26	960 U	8.9 J	9.6 U	20	46 J+	830 U	42 J+	890 U	10 J	10 J	4.0 J	52 J+	1200 U						
Benzene	71-43-2	1200	5100	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
Bromodichloromethane	75-27-4	290	1300	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
Carbon disulfide	75-15-0	770000	3500000	NA	6.3 U	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	9.8 J	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 U	450 U	8.7 U	7.4 U	5.4 U	11 UJ	610 U						
Chloroethane	75-00-3	5400000	23000000	NA	6.3 U	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 U	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 U	450 U	8.7 U	7.4 U	5.4 U	11 UJ	610 J						
Chloroform	67-66-3	320	1400	NA	6.3 U	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 U	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 U	450 U	8.7 U	7.4 U	5.4 U	11 UJ	610 U						
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	6.3 U	370 U	6.3 U	370 U	6.1 UJ	7.2 UJ	8.0 U	430 U	10 U	480 U	5.2 U	4.8 UJ	5.4 UJ	8.0 UJ	410 U	9.4 UJ	450 U	8.7 UJ	7.4 U	5.4 U	11 UJ	610 U						
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
Cyclohexane	110-82-7	6500000	27000000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	320 J	7.1 J+	450 J	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	400 J	610 U					
Ethylbenzene	100-41-4	5800	25000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	3.8 J	65 J	3.4 J+	130 J	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	2.1 J+	150 J	610 U					
Isopropylbenzene	98-82-8	1900000	9900000	NA	R	370 U	6.3 UJ	370 U	6.1 U	7.2 U	R	430 U	4.0 J+	480 U	5.2 UJ	4.8 U	5.4 U	8.0 UJ	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	6.3 UJ	370 U	6.3 U	57 J	6.1 U	7.2 U	15	300 J	12 J+	640	1.5 J	4.8 U	5.4 U	4.8 J	410 U	5.3 J+	450 U	8.7 U	7.4 U	5.4 U	9.5 J+	1100						
Methyl Acetate	79-20-9	78000000	1200000000	NA	6.3 U	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 U	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 U	450 U	8.7 UJ	7.4 U	5.4 U	11 UJ	610 U						
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	6.3 UJ	120 J	6.3 U	190 J	6.1 U	7.2 U	8.0 UJ	1200	20 J+	1500	5.2 U	4.8 U	5.4 U	8.0 U	110 J	9.4 UJ	78 J	8.7 U	7.4 U	5.4 U	R	1600						
Methylene chloride	75-09-2	57000	1000000	NA	16 J	370 U	6.3 UJ	370 U	6.1 U	7.2 U	8.0 UJ	430 U	17 J	480 U	5.2 U	4.8 U	5.4 U	14	410 U	9.4 U	450 U	8.7 UJ	7.4 U	5.4 U	30 J+	610 U						
o-Xylene	95-47-6	640000	2800000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	5.0 J	270 J	7.2 J+	440 J	5.2 U	4.8 U	5.4 U	2.6 J	410 U	3.0 J+	450 U	8.7 U	7.4 U	5.4 U	4.9 J+	800						
Styrene	100-42-5	6000000	35000000	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	R	610 U						
Tetrachloroethene	127-18-4	24000	100000	44	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	11 J	1100	350 J+	1700	88	1.4 J	3.2 J	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	15 J+	290 J	610 U					
Toluene	108-88-3	4900000	47000000	NA	3.4 J+	77 J	3.4 J	79 J	6.1 U	7.2 U	6.8 J	240 J	19 J+	380 J	5.2 U	4.8 U	5.4 U	13	85 J	11 J+	450 U	8.7 U	2.0 J	5.4 U	20 J+	290 J	610 U					
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	6.3 U	370 U	6.3 U	370 U	6.1 UJ	7.2 UJ	8.0 U	430 U	10 U	480 U	5.2 U	4.8 UJ	5.4 UJ	8.0 UJ	410 U	9.4 UJ	450 U	8.7 UJ	7.4 U	5.4 U	11 UJ	610 U						
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	6.3 UJ	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 UJ	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	11 J+	610 U						
Trichloroethene	79-01-6	940	6000	34	88 J+	1300	63	1700	6.1 U	7.2 U	11 J	410 J	150 J+	550	44 J	4.8 U	5.4 U	8.0 U	410 U	9.4 UJ	450 U	8.7 U	7.4 U	5.4 U	4.7 J+	610 U						
Vinyl chloride	75-01-4	59	1700	NA	6.3 U	370 U	6.3 U	370 U	6.1 U	7.2 U	8.0 U	430 U	10 U	480 U	5.2 U	4.8 U	5.4 U	8.0 U	410 U	9.4 U	450 U	8.7 U	7.4 U	5.4 U	11 UJ	610 U						
See notes					1	3	1	3			3		3					1		1				1	3							

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.
J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).
U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)
UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria
R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
-- = Not Analyzed
µg/kg = micrograms per kilogram
CAS Number = Chemical Abstracts Service Registry Number
EPA = U. S. Environmental Protection Agency
NA = Not Available
PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBB2-0406-112921	ETCA-SBB2-0406-112921	ETCA-SBB2-0810-112921	ETCA-SBB2-0810-112921	ETCA-SBB2-1214-112921	ETCA-SBB2-0002-112921	ETCA-SBB3-0002-112921	ETCA-SBB3-0002-D-112921	ETCA-SBB3-0002-D-112921	ETCA-SBB3-0406-112921	ETCA-SBB3-0406-112921	ETCA-SBB3-0810-112921	ETCA-SBB3-0810-D-112921	ETCA-SBB3-0810-D-112921	ETCA-SBB3-1214-112921	ETCA-SBB3-1214-112921	ETCA-SBB3-0002-112921	ETCA-SBB4-0002-112921	ETCA-SBB4-0406-112921	ETCA-SBB4-0406-112921	ETCA-SBB4-0810-112921	ETCA-SBB4-1214-112921
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 13:45:00	11/29/2021 13:45:00	11/29/2021 13:50:00	11/29/2021 13:50:00	11/29/2021 13:55:00	11/29/2021 13:10:00	11/29/2021 13:10:00	11/29/2021 13:12:00	11/29/2021 13:12:00	11/29/2021 13:15:00	11/29/2021 13:20:00	11/29/2021 13:22:00	11/29/2021 13:22:00	11/29/2021 13:25:00	11/29/2021 13:25:00	11/29/2021 12:45:00	11/29/2021 12:50:00	11/29/2021 12:55:00	11/29/2021 12:55:00	11/29/2021 13:00:00		
					Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium
					EW9H4	EW9H4ME	EW9H5	EW9H5ME	EW9H6	EW9G7	EW9G7ME	EW9G8	EW9G8ME	EW9G9	EW9G9ME	EW9H0	EW9H1	EW9H1ME	EW9H2	EW9H2ME	EW9G3	EW9G3ME	EW9G4	EW9G4ME	EW9G5	EW9G6
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	7.7 J+	680 U	8.5 UJ	470 U	6.1 U	R	460 U	R	480 U	R	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	9.7 UJ	380 U	7.0 U	5.6 U
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 UJ	460 U	9.1 UJ	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
1,1-Dichloroethene	75-35-4	230000	1000000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	7.1 J+	680 U	2.9 J+	130 J	6.1 U	6.9 J+	460 UJ	7.6 J+	940 J	R	470 U	5.7 U	7.0 UJ	84 J	R	310 U	R	73 J	4.5 J+	380 U	7.0 U	5.6 U
1,2-Dichloroethane	107-06-2	460	2000	NA	7.7 J+	680 U	2.9 J	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	4.8 J	470 U	2.4 J	2.5 J	440 U	R	310 U	R	460 U	6.2 J	380 U	7.0 U	5.6 U
1,2-Dichloropropane	78-87-5	2500	11000	NA	R	680 U	8.5 J	470 U	6.1 U	9.8 UJ	460 U	9.1 J+	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	R	680 U	2.3 J+	470 U	6.1 U	2.6 J+	460 U	2.4 J+	190 J	R	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	2.9 J+	380 U	7.0 U	5.6 U
2-Butanone	78-93-3	27000000	190000000	NA	R	1400 U	17 U	940 U	12 U	20 U	910 U	18 U	950 U	15 U	930 U	11 U	14 U	880 U	R	610 U	R	920 U	19 U	770 U	14 U	11 U
2-Hexanone	591-78-6	200000	1300000	NA	R	1400 U	17 U	940 U	12 U	20 UJ	910 U	18 UJ	950 U	15 UJ	930 U	11 U	14 U	880 U	R	610 U	14 J+	920 U	19 U	770 U	14 U	11 U
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	R	1400 U	17 U	940 U	12 U	20 UJ	910 U	18 UJ	950 U	15 UJ	930 U	11 U	14 U	880 U	R	610 U	R	920 U	19 U	770 U	14 U	11 U
Acetone	67-64-1	70000000	1100000000	NA	R	1400 U	15 J	940 U	17	20 U	910 U	18 U	310 J	89 J+	930 U	21	32	290 J	33 J+	610 U	R	920 U	19 U	770 U	9.1 J	11 U
Benzene	71-43-2	1200	5100	NA	R	680 U	27	380 J	6.1 U	9.8 UJ	460 U	9.1 UJ	200 J	7.4 UJ	470 U	5.7 U	7.0 U	75 J	R	310 U	6.8 J+	460 U	9.7 U	380 U	7.0 U	5.6 U
Bromodichloromethane	75-27-4	290	1300	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 UJ	460 U	9.1 UJ	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Carbon disulfide	75-15-0	770000	3500000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Chloroethane	75-00-3	5400000	23000000	NA	R	680 J	8.5 U	470 J	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 U	440 U	R	310 U	6.8 J+	460 U	9.7 U	380 U	7.0 U	5.6 U
Chloroform	67-66-3	320	1400	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	450 J	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 UJ	460 U	9.1 UJ	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Cyclohexane	110-82-7	6500000	27000000	NA	R	680 U	8.5 U	210 J	6.1 U	9.8 UJ	460 UJ	6.7 J+	1300 J	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Ethylbenzene	100-41-4	5800	25000	NA	2.9 J+	680 U	8.5 U	120 J	6.1 U	2.0 J+	460 U	1.9 J+	430 J	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	3.2 J+	460 U	9.7 U	380 U	7.0 U	5.6 U
Isopropylbenzene	98-82-8	1900000	9900000	NA	R	680 U	8.5 UJ	470 U	6.1 U	3.7 J+	460 U	2.4 J+	390 J	R	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	9.7 UJ	380 U	7.0 U	5.6 U
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	10 J+	680 U	8.5 U	390 J	6.1 U	8.3 J+	88 J	8.3 J+	1700 J	7.4 UJ	470 U	5.7 U	7.0 U	140 J	R	310 U	8.6 J+	100 J	9.7 U	69 J	7.0 U	5.6 U
Methyl Acetate	79-20-9	78000000	1200000000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	R	680 U	8.5 U	620	6.1 U	6.1 J+	100 J	15 J+	4300 J	7.4 UJ	470 U	5.7 U	7.0 U	120 J	R	310 U	5.7 J+	300 J	9.7 U	64 J	7.0 U	5.6 U
Methylene chloride	75-09-2	57000	1000000	NA	20 J+	680 U	8.5 U	470 U	6.1 U	24 J	460 U	9.1 UJ	480 U	14	470 U	5.7 U	7.0 U	440 U	11 J+	310 U	18 J+	460 U	17	380 U	7.0 U	5.6 U
o-Xylene	95-47-6	640000	2800000	NA	6.8 J+	680 U	8.5 U	260 J	6.1 U	5.0 J+	460 UJ	5.7 J+	1700 J	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	8.4 J+	94 J	9.7 U	380 U	7.0 U	5.6 U
Styrene	100-42-5	6000000	35000000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 UJ	460 U	9.1 UJ	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Tetrachloroethene	127-18-4	24000	100000	44	21 J+	680 U	19	240 J	6.1 U	22 J+	460 U	27 J+	320 J	45 J+	220 J	5.0 J	5.6 J	650	2.3 J+	310 U	10 J+	460 U	27 J+	160 J	7.0 U	5.6 U
Toluene	108-88-3	4900000	47000000	NA	17 J+	150 J	12	790	6.1 U	19 J+	110 J	16 J+	1600 J	3.9 J+	470 U	5.7 U	7.0 U	190 J	R	310 U	22 J+	120 J	5.0 J+	110 J	7.0 U	5.6 U
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 UJ	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 UJ	460 U	9.1 UJ	480 U	7.4 UJ	470 U	5.7 U	7.0 U	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
Trichloroethene	79-01-6	940	6000	34	11 J+	680 U	18	560	6.1 U	1100 J+	690 J	1100 J+	12000 J	220 J+	440 J	5.5 J	7.6	1700	1.9 J+	310 U	1200 J+	3000	910 J+	4000	1.4 J	5.6 U
Vinyl chloride	75-01-4	59	1700	NA	R	680 U	8.5 U	470 U	6.1 U	9.8 U	460 U	9.1 U	480 U	7.4 U	470 U	5.7 U	7.0 J	440 U	R	310 U	R	460 U	9.7 U	380 U	7.0 U	5.6 U
See notes					1			3		1, 2			3		3, 2			3		1		1		3		3

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBB5-0002-112921	ETCA-SBB5-0002-112921	ETCA-SBB5-0406-112921	ETCA-SBB5-0406-112921	ETCA-SBB5-0810-112921	ETCA-SBB5-1214-112921	ETCA-SBB6-0002-041422	ETCA-SBB6-0406-041422	ETCA-SBB6-0810-041422	ETCA-SBB6-1214-041422	ETCA-SBB7-0002-041422	ETCA-SBB7-0406-041422	ETCA-SBB7-0810-041422	ETCA-SBB7-1214-041422	ETCA-SBC1-0002-112921	ETCA-SBC1-0002-112921	ETCA-SBC1-0406-112921	ETCA-SBC1-0406-112921	ETCA-SBC1-0810-112921	ETCA-SBC1-1214-112921	ETCA-SBC2-0002-112921	ETCA-SBC2-0406-112921		
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 11:50:00	11/29/2021 11:50:00	11/29/2021 11:55:00	11/29/2021 11:55:00	11/29/2021 12:00:00	11/29/2021 12:05:00	04/14/2022 10:00:00	04/14/2022 10:02:00	04/14/2022 10:06:00	04/14/2022 10:08:00	04/14/2022 09:12:00	04/14/2022 09:22:00	04/14/2022 09:36:00	11/29/2021 14:50:00	11/29/2021 14:50:00	11/29/2021 15:05:00	11/29/2021 15:05:00	11/29/2021 15:10:00	11/29/2021 15:25:00	11/29/2021 15:10:00	11/29/2021 15:25:00			
					Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium
					EW9F9	EW9F9ME	EW9G0	EW9G0ME	EW9G1	EW9G2	EX8Q1	EX8Q2	EX8Q3	EX8Q4	EX8Q5	EX8Q6	EX8Q7	EX8Q8	EW9J2	EW9J2ME	EW9J5	EW9J5ME	EW9J3	EW9J4	EW9J6	EW9J7		
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	R	310 U	R	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
1,1-Dichloroethene	75-35-4	230000	1000000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 UJ	550 U	7.2 UJ	5.7 U	5.8 UJ	6.6 U		
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	R	310 U	2.4 J+	110 J	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	3.9 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	63 J	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
1,2-Dichloroethane	107-06-2	460	2000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	9.5 J	550 U	4.2 J	5.7 U	4.9 J	2.8 J		
1,2-Dichloropropane	78-87-5	2500	11000	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	R	310 U	R	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
2-Butanone	78-93-3	27000000	190000000	NA	13 UJ	610 U	12 U	780 U	9.5 U	15 U	12 UJ	11 UJ	12 UJ	8.8 UJ	13 UJ	24 J	10 UJ	9.8 UJ	12 U	890 U	22 U	1100 U	14 U	11 U	12 U	11 J+		
2-Hexanone	591-78-6	200000	1300000	NA	R	610 U	12 UJ	780 U	9.5 U	15 U	12 UJ	11 UJ	12 UJ	8.8 UJ	13 UJ	9.9 UJ	10 UJ	9.8 UJ	12 U	890 U	22 U	1100 U	14 U	11 U	12 U	13 U		
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	R	610 U	12 UJ	780 U	9.5 U	15 U	12 UJ	11 UJ	12 UJ	8.8 UJ	13 UJ	9.9 UJ	10 UJ	9.8 UJ	12 U	890 U	22 U	1100 U	14 U	11 U	12 U	13 U		
Acetone	67-64-1	700000000	1100000000	NA	13 UJ	610 U	13	780 U	9.5 U	15 U	21 J	25 J	41 J	33 J	52 J	200 J	46 J	63 J	6.7 J	890 U	15 J	1100 U	35	11 U	12 U	35 J+		
Benzene	71-43-2	1200	5100	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	4.8 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	8.4	5.7 U	5.8 U	6.6 U		
Bromodichloromethane	75-27-4	290	1300	NA	R	310 U	6.2 J+	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Carbon disulfide	75-15-0	770000	3500000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.7 J	12 J	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Chloroethane	75-00-3	5400000	23000000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Chloroform	67-66-3	320	1400	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	5.2 J		
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 UJ	550 U	7.2 UJ	5.7 U	5.8 UJ	6.6 U		
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Cyclohexane	110-82-7	6500000	27000000	NA	R	310 U	6.2 UJ	120 J	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	9.1 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Ethylbenzene	100-41-4	5800	25000	NA	R	310 U	6.2 UJ	63 J	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Isopropylbenzene	98-82-8	1900000	9900000	NA	R	310 U	R	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	R	310 U	1.5 J+	190 J	4.7 U	7.4 U	--	--	--	--	--	--	--	--	5.9 U	81 J	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Methyl Acetate	79-20-9	780000000	1200000000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	R	310 U	6.2 UJ	450	4.7 U	7.4 U	5.5 J+	5.4 UJ	5.9 UJ	4.4 UJ	26 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	170 J	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Methylene chloride	75-09-2	57000	1000000	NA	11 J+	310 U	17 J+	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
o-Xylene	95-47-6	640000	2800000	NA	R	310 U	1.4 J+	180 J	4.7 U	7.4 U	2.9 J	5.4 UJ	5.9 UJ	4.4 UJ	7.3 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	77 J	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Styrene	100-42-5	6000000	35000000	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Tetrachloroethene	127-18-4	24000	100000	44	13 J+	84 J	6.0 J+	330 J	4.7 U	3.0 J	6.0 UJ	30 J	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Toluene	108-88-3	4900000	47000000	NA	R	310 U	5.6 J+	290 J	4.7 U	7.4 U	6.4 J	5.4 UJ	5.9 UJ	4.4 UJ	12 J+	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	110 J	4.4 J	550 U	8.5	5.7 U	1.6 J	2.9 J		
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 UJ	440 U	11 UJ	550 U	7.2 UJ	5.7 U	5.8 UJ	6.6 U		
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	R	310 U	6.2 UJ	390 U	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
Trichloroethene	79-01-6	940	6000	34	8.8 J+	310 U	160 J+	3200	4.7 U	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	4.2 J	5.7 U	2.0 J	2.7 J		
Vinyl chloride	75-01-4	59	1700	NA	6.4 UJ	310 U	6.2 U	390 U	4.7 J	7.4 U	6.0 UJ	5.4 UJ	5.9 UJ	4.4 UJ	6.3 UJ	4.9 UJ	5.2 UJ	4.9 UJ	5.9 U	440 U	11 U	550 U	7.2 U	5.7 U	5.8 U	6.6 U		
See notes					1	3		3											1		1							

Notes:
= result greater than the PAL

Laboratory results reported in units of µg/kg

- 1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

		Screening Levels			ETCA-SBC2-0809-112921	ETCA-SBC3-0002-112921	ETCA-SBC3-0002-112921	ETCA-SBC3-0002-D-112921	ETCA-SBC3-0002-D-112921	ETCA-SBC3-0406-112921	ETCA-SBC3-0406-112921	ETCA-SBC3-0810-112921	ETCA-SBC3-0810-112921	ETCA-SBC3-1214-112921	ETCA-SBC4-0002-112921	ETCA-SBC4-0002-112921	ETCA-SBC4-0406-112921	ETCA-SBC4-0810-112921	ETCA-SBC4-0810-112921	ETCA-SBC4-1214-112921	ETCA-SBC5-0002-113021	ETCA-SBC5-0002-113021	ETCA-SBC5-0406-113021	ETCA-SBC5-0810-113021	ETCA-SBC5-1214-113021	ETCA-SBD1-0002-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/29/2021 15:35:00	11/29/2021 15:45:00	11/29/2021 15:45:00	11/29/2021 15:47:00	11/29/2021 15:47:00	11/29/2021 15:50:00	11/29/2021 15:50:00	11/29/2021 15:55:00	11/29/2021 15:55:00	11/29/2021 16:00:00	11/29/2021 16:05:00	11/29/2021 16:05:00	11/29/2021 16:10:00	11/29/2021 16:15:00	11/29/2021 16:15:00	11/29/2021 16:20:00	11/30/2021 09:10:00	11/30/2021 09:10:00	11/30/2021 09:15:00	11/30/2021 09:20:00	11/30/2021 09:25:00	11/30/2021 10:50:00
					Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium	Low	Low
Volatile Organic Compounds (µg/kg)	CAS Number	EW9J8	EW9J9	EW9J9ME	EW9K0	EW9K0ME	EW9K1	EW9K1ME	EW9K2	EW9K2ME	EW9K3	EW9K4	EW9K4ME	EW9K5	EW9K6	EW9K6ME	EW9K7	EW9K8	EW9K8ME	EW9K9	EW9L0	EW9L1	EW9M9			
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	8.5 U	49	330 J	65 J+	420 J	21	320 J	16	2700	7.6 U	7.9 U	350 U	5.2 U	21 J+	300 J	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
1,1-Dichloroethene	75-35-4	230000	1000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 UJ	7.6 U	7.9 U	350 UJ	5.2 UJ	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	8.5 U	8.5 U	470 U	R	480 U	6.0 U	360 U	9.3 U	330 J	7.6 U	2.3 J+	200 J	5.2 U	R	660 J	4.9 U	9.8 J+	570 U	5.7 U	5.2 U	4.6 U	1.6 J+
1,2-Dichloroethane	107-06-2	460	2000	NA	8.5 U	4.8 J+	470 U	7.0 J	480 U	6.0 U	360 U	4.8 J	640 UJ	7.6 U	3.6 J	350 U	5.2 U	12 J+	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	3.1 J
1,2-Dichloropropane	78-87-5	2500	11000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 UJ	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	8.5 U	8.5 U	470 U	R	480 U	6.0 U	360 U	9.3 U	120 J	7.6 U	R	51 J	5.2 U	R	300 J	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 UJ
2-Butanone	78-93-3	27000000	190000000	NA	17 U	17 U	940 U	18 U	970 U	12 U	720 U	19 U	1300 U	15 U	16 U	710 U	10 U	24 U	1600 U	9.7 U	15 UJ	1100 U	11 U	10 U	9.2 U	13 U
2-Hexanone	591-78-6	200000	1300000	NA	17 U	17 U	940 U	18 U	970 U	12 U	720 U	19 U	1300 U	15 U	16 U	710 U	10 U	24 U	1600 U	9.7 U	R	1100 U	11 U	10 U	9.2 U	13 U
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	17 U	17 U	940 U	18 U	970 U	12 U	720 U	19 U	1300 U	15 U	16 U	710 U	10 U	24 U	1600 U	9.7 U	R	1100 U	11 U	10 U	9.2 U	13 U
Acetone	67-64-1	70000000	1100000000	NA	8.9 J	14 J+	940 U	14 J+	970 U	12	720 U	13 J	1300 U	4.6 J	16 U	710 U	6.1 J	37 J+	1600 U	8.6 J	38 J+	1100 U	9.5 J	8.1 J	7.1 J	11 J
Benzene	71-43-2	1200	5100	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Bromodichloromethane	75-27-4	290	1300	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 UJ	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Carbon disulfide	75-15-0	770000	3500000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Chloroethane	75-00-3	5400000	23000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Chloroform	67-66-3	320	1400	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	3.0 J	700	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	35	11000 J-	7.6 U	7.9 U	350 UJ	5.2 UJ	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Cyclohexane	110-82-7	6500000	27000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	620 J-	7.6 U	7.9 U	360	5.2 U	12 U	130 J	4.9 U	21 J+	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Ethylbenzene	100-41-4	5800	25000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	79 J	5.2 U	12 U	790 U	4.9 U	2.7 J+	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Isopropylbenzene	98-82-8	1900000	9900000	NA	8.5 U	8.5 U	470 U	R	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	R	350 U	5.2 U	R	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 UJ
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	570 J	7.6 U	7.9 U	370	5.2 U	12 U	410 J	4.9 U	9.9 J+	570 U	5.7 U	5.2 U	4.6 U	1.9 J
Methyl Acetate	79-20-9	78000000	1200000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	660 J-	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	8.5 U	8.5 U	110 J	8.8 U	480 U	6.0 U	120 J	9.3 U	2300 J-	7.6 U	7.9 U	1100	5.2 U	12 U	620 J	4.9 U	35 J+	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Methylene chloride	75-09-2	57000	1000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 UJ	7.6 U	7.9 U	350 U	5.2 U	23 J+	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
o-Xylene	95-47-6	640000	2800000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	340 J	7.6 U	7.9 U	340 J	5.2 U	12 U	250 J	4.9 U	7.4 J+	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Styrene	100-42-5	6000000	35000000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Tetrachloroethene	127-18-4	24000	100000	44	2.9 J	7.5 J	200 J	9.2	270 J	2.9 J	360 U	12	7800 J+	41	26	1900 J+	26	520 J+	17000 J+	2 J	3700 J+	1200	5.7 U	5.2 U	4.6	6.3 U
Toluene	108-88-3	4900000	47000000	NA	8.5 U	2.3 J	89 J	4.1 J	87 J	6.0 U	86 J	9.3 U	360 J	7.6 U	2.9 J	230 J	5.2 U	6.6 J+	230 J	4.9 U	22 J+	570 U	5.7 U	5.2 U	4.6 U	3.3 J
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	440 J-	7.6 U	7.9 U	350 UJ	5.2 UJ	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	R	570 U	5.7 U	5.2 U	4.6 U	6.3 U
Trichloroethene	79-01-6	940	6000	34	31	2100	14000 J	2400	270000 J	870	24000	300	320000	7.6 U	2700	84000	210	4700 J+	130000	4.9 U	53000 J+	6200	1.5 J	5.2 U	4.6 U	6.3 U
Vinyl chloride	75-01-4	59	1700	NA	8.5 U	8.5 U	470 U	8.8 U	480 U	6.0 U	360 U	9.3 U	640 U	7.6 U	7.9 U	350 U	5.2 U	12 U	790 U	4.9 U	7.4 UJ	570 U	5.7 U	5.2 U	4.6 U	6.3 U
See notes							3		3	1	3		3		3		3		3		3					1

Notes:
= result greater than the PAL

Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBD1- 0002-113021	ETCA-SBD1- 0002-D-113021	ETCA-SBD1- 0406-113021	ETCA-SBD1- 0810-113021	ETCA-SBD1- 0810-113021	ETCA-SBD1- 1214-113021	ETCA-SBD1- 1214-113021	ETCA-SBD2- 0002-113021	ETCA-SBD2- 0002-113021	ETCA-SBD2- 0406-113021	ETCA-SBD2- 0406-113021	ETCA-SBD2- 0810-113021	ETCA-SBD2- 0810-113021	ETCA-SBD2- 1214-113021	ETCA-SBD3- 0002-113021	ETCA-SBD3- 0002-113021	ETCA-SBD3- 0406-113021	ETCA-SBD3- 0406-113021	ETCA-SBD3- 0810-113021	ETCA-SBD3- 0810-113021	ETCA-SBD3- 1214-113021	ETCA-SBD3- 1214-113021	ETCA-SBD4- 0002-113021	
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 10:50:00	11/30/2021 10:52:00	11/30/2021 10:55:00	11/30/2021 11:00:00	11/30/2021 11:00:00	11/30/2021 11:05:00	11/30/2021 11:05:00	11/30/2021 10:30:00	11/30/2021 10:30:00	11/30/2021 10:35:00	11/30/2021 10:40:00	11/30/2021 10:40:00	11/30/2021 10:45:00	11/30/2021 10:50:00	11/30/2021 10:10:00	11/30/2021 10:10:00	11/30/2021 10:15:00	11/30/2021 10:20:00	11/30/2021 10:20:00	11/30/2021 10:25:00	11/30/2021 10:25:00	11/30/2021 09:50:00		
					Medium	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low
					EW9M9ME	EW9N0	EW9N1	EX887	EX887ME	EX888	EX888ME	EW9M5	EW9M5ME	EW9M6	EW9M6ME	EW9M7	EW9M7ME	EW9M8	EW9M1	EW9M1ME	EW9M2	EW9M2ME	EW9M3	EW9M3ME	EW9M4	EW9L6		
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	9.5 U	490 U	5 U	R	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	16	490 U	5 U	21 J+	450 U	87 J+	180 J	3.8 J	370 U	5.2 U	7.6 UJ		
1,1-Dichloroethene	75-35-4	230000	1000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	7.4 UJ	450 U	11 U	610 U	5.6 U	370 UJ	5.2 U	7.6 U		
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	370 U	1.5 J	5.4 U	3.9 J+	450 U	1500 J+	1400	1.7 J+	370 J	5.1 UJ	310 U	210 J+	410 J	5 U	8.0 J+	450 U	6.2 J+	610 U	5.6 U	370 U	5.2 U	6.1 J+		
1,2-Dichloroethane	107-06-2	460	2000	NA	370 U	3.1 J	2.3 J	10 U	450 U	6.1 U	380 U	3.1 J+	390 U	5.1 U	310 U	9.5 U	490 U	5 U	6.5 J+	450 U	13	610 U	5.6 U	370 U	5.2 U	7.3 J+		
1,2-Dichloropropane	78-87-5	2500	11000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	9.5 U	490 U	5 U	R	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	370 U	1 J	5.4 U	10 UJ	450 U	500 J+	530	R	88 J	5.1 UJ	310 U	250 J+	380 J	5 U	R	450 U	4.3 J+	610 U	5.6 U	370 U	5.2 U	2.5 J+		
2-Butanone	78-93-3	27000000	190000000	NA	740 U	12 U	11 U	20 U	900 U	22	760 U	11 U	780 U	10 U	630 U	19 U	990 U	9.9 U	15 UJ	900 U	22 U	1200 U	11 U	730 U	10 U	15 U		
2-Hexanone	591-78-6	200000	1300000	NA	740 U	12 U	11 U	20 U	900 U	12 U	760 U	11 UJ	780 U	10 U	630 U	19 U	990 U	9.9 U	R	900 U	22 UJ	1200 U	11 U	730 U	10 U	15 UJ		
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	740 U	12 U	11 U	20 U	900 U	12 U	760 U	11 UJ	780 U	10 U	630 U	19 U	990 U	9.9 U	8.0 J+	900 U	22 UJ	1200 U	11 U	730 U	10 U	15 UJ		
Acetone	67-64-1	70000000	1100000000	NA	740 U	11 J	12	16 J	900 U	83	180 J	13	780 U	18 J+	630 U	45 J+	990 U	9.9 U	43 J+	900 U	40	1200 U	11 U	730 U	10 U	21 J+		
Benzene	71-43-2	1200	5100	NA	370 U	5.9 U	5.4 U	10 U	450 U	280	110 J	5.6 UJ	74 J	5.1 U	310 U	27 J+	240 J	5 U	8.5 J+	450 U	43 J+	610 U	5.6 U	370 U	5.2 U	6.2 J+		
Bromodichloromethane	75-27-4	290	1300	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	9.5 U	490 U	5 U	R	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
Carbon disulfide	75-15-0	770000	3500000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	35 J+	450 U	11 U	610 U	5.6 U	370 U	5.2 U	7.6 U		
Chloroethane	75-00-3	5400000	23000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	7.4 UJ	450 U	11 U	610 U	5.6 U	370 U	5.2 U	7.6 U		
Chloroform	67-66-3	320	1400	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	710	5 U	5.8 J+	450 U	3.8 J	610 U	5.6 U	510	5.2 U	7.6 U		
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	22 J+	450 U	95	610 U	5.6 U	370 UJ	5.2 U	7.6 U		
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	9.5 U	490 U	5 U	R	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
Cyclohexane	110-82-7	6500000	27000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	420	5.1 U	310 U	9.5 U	490 U	5 U	7.4 J+	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	3.9 J+		
Ethylbenzene	100-41-4	5800	25000	NA	370 U	5.9 U	5.4 U	10 U	450 U	110	68 J	5.6 UJ	140 J	5.1 U	310 U	7.4 J	490 U	5 U	3.7 J+	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	2.0 J+		
Isopropylbenzene	98-82-8	1900000	9900000	NA	370 U	5.9 U	5.4 U	10 UJ	450 U	7.9 J+	380 U	R	130 J	5.1 UJ	310 U	9.5 UJ	490 U	5 U	6.4 J+	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	3.1 J+		
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	370 U	1.8 J	5.4 U	3.3 J	450 U	2200	1000	2.4 J+	580	5.1 U	310 U	79	490	5 U	9.1 J+	73 J	15 J+	610 U	5.6 U	53 J	5.2 U	6.5 J+		
Methyl Acetate	79-20-9	78000000	1200000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	150 J	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	7.4 UJ	450 U	11 U	610 U	5.6 U	370 U	5.2 U	7.6 U		
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	370 U	5.9 U	5.4 U	10 U	450 U	2.5 J	380 U	2.4 J+	1600	5.1 U	310 U	9.5 U	490 U	5 U	23 J+	210 J	11 UJ	610 U	5.6 U	370 U	5.2 U	11 J+		
Methylene chloride	75-09-2	57000	1000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	11 J+	390 U	5.1 U	310 U	9.5 U	490 U	5 U	15 J+	450 U	22	610 U	5.6 U	370 U	5.2 U	7.6 U		
o-Xylene	95-47-6	640000	2800000	NA	370 U	1.2 J	5.4 U	10 U	450 U	1000	460	1.9 J+	580	5.1 U	310 U	27	120 J	5 U	8.6 J+	450 U	2.8 J+	610 U	5.6 U	370 U	5.2 U	4.8 J+		
Styrene	100-42-5	6000000	35000000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	53	140 J	5 U	R	450 U	14 J+	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
Tetrachloroethene	127-18-4	24000	100000	44	370 U	5.9 U	5.4 U	75	190 J	6.1 U	380 U	9.4 J+	210 J	5.3	310 U	76	600	8	12000 J+	16000	6100 J+	180000	550	1800	150	3600 J+		
Toluene	108-88-3	4900000	47000000	NA	370 U	2.7 J	2.2 J	10 U	450 U	430	200 J	4.7 J+	520	5.1 U	310 U	29	320 J	5 U	31 J+	110 J	44 J+	190 J	5.6 U	370 U	5.2 U	18 J+		
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	4.9 J+	450 U	8.9 J	610 U	5.6 U	370 UJ	5.2 U	7.6 U		
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 UJ	390 U	5.1 U	310 U	9.5 U	490 U	5 U	R	450 U	11 UJ	610 U	5.6 U	370 U	5.2 U	7.6 UJ		
Trichloroethene	79-01-6	940	6000	34	370 U	5.9 U	5.4 U	19	450 U	6.1 U	380 U	610 J+	9900	68	310 U	220	1600	2.7 J	20000 J+	10000	17000 J+	380000	540	530	13	1700 J+		
Vinyl chloride	75-01-4	59	1700	NA	370 U	5.9 U	5.4 U	10 U	450 U	6.1 U	380 U	5.6 U	390 U	5.1 U	310 U	9.5 U	490 U	5 U	7.4 UJ	450 U	11 U	610 U	5.6 U	370 U	5.2 U	7.6 U		
See notes								1	3	1		3	1		3		2		2		3	2	3		2			

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBD4-0002-113021	ETCA-SBD4-0002-D-113021	ETCA-SBD4-0002-D-113021	ETCA-SBD4-0406-113021	ETCA-SBD4-0406-113021	ETCA-SBD4-0810-113021	ETCA-SBD4-1214-113021	ETCA-SBD4-1214-113021	ETCA-SBD5-0002-113021	ETCA-SBD5-0406-113021	ETCA-SBD5-0406-113021	ETCA-SBD5-0810-113021	ETCA-SBD5-1214-113021	ETCA-SBD5-1214-113021	ETCA-SBE1-0002-113021	ETCA-SBE1-0002-113021	ETCA-SBE1-0406-113021	ETCA-SBE1-0406-113021	ETCA-SBE1-0810-113021	ETCA-SBE1-0810-113021	ETCA-SBE1-1214-113021	ETCA-SBE1-1214-113021	ETCA-SBE2-0002-113021	ETCA-SBE2-0002-113021
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 09:50:00	11/30/2021 09:52:00	11/30/2021 09:52:00	11/30/2021 09:55:00	11/30/2021 09:55:00	11/30/2021 10:00:00	11/30/2021 10:05:00	11/30/2021 10:05:00	11/30/2021 09:30:00	11/30/2021 09:35:00	11/30/2021 09:35:00	11/30/2021 09:40:00	11/30/2021 09:45:00	11/30/2021 11:10:00	11/30/2021 11:10:00	11/30/2021 11:15:00	11/30/2021 11:15:00	11/30/2021 11:20:00	11/30/2021 11:20:00	11/30/2021 11:30:00	11/30/2021 11:30:00	11/30/2021 11:50:00	11/30/2021 11:50:00	
					Medium	Low	Medium	Low	Medium	Low	Low	Medium	Low	Low	Medium	Low	Low	Low	Low	Low	Medium	Low	Medium	Low	Medium	Low	Low	Medium
					EW9L6ME	EW9L7	EW9L7ME	EW9L8	EW9L8ME	EW9L9	EW9M0	EW9M0ME	EW9L2	EW9L3	EW9L3ME	EW9L4	EW9L5	EX889	EX889ME	EX890	EX890ME	EX891	EX891ME	EX892	EX893	EX893ME		
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	1.1 J	4.0 U	230 U	5.3 U	34	100 J	5.3 U	1.2 J	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	6.7 J+	450 U		
1,1-Dichloroethene	75-35-4	230000	1000000	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	430 U	4.2 J+	370 U	2.4 J+	400 U	5.4 U	4.0 U	230 U	5.3 U	3.7 J+	350 U	5.3 U	4.7 U	1.9 J+	320 U	R	410 U	2.7 J+	480 U	8 U	8 J+	450 U		
1,2-Dichloroethane	107-06-2	460	2000	NA	430 U	6.6 J+	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	1.4 J	7.2	320 U	13	410 U	10 U	480 U	2.4 J	9.7 U	450 U		
1,2-Dichloropropane	78-87-5	2500	11000	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	430 U	R	370 U	1.2 J+	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 UJ	350 U	5.3 U	4.7 U	5.8 UJ	320 U	R	410 U	R	480 U	8 U	2.3 J+	450 U		
2-Butanone	78-93-3	27000000	190000000	NA	870 U	14 U	730 U	18 U	810 U	11 U	8.0 U	460 U	11 U	15 U	700 U	11 U	9.5 U	12 U	640 U	19 U	820 U	20 U	960 U	16 U	19 U	890 U		
2-Hexanone	591-78-6	200000	1300000	NA	870 U	14 UJ	730 U	18 U	810 U	11 U	8.0 U	460 U	11 U	15 U	700 U	11 U	9.5 U	12 U	640 U	19 UJ	820 U	20 UJ	960 U	16 U	19 UJ	890 U		
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	870 U	5.9 J+	730 U	18 U	810 U	11 U	8.0 U	460 U	11 U	15 U	700 U	11 U	9.5 U	12 U	640 U	19 UJ	820 U	20 UJ	960 U	16 U	19 UJ	890 U		
Acetone	67-64-1	700000000	1100000000	NA	870 U	36 J+	730 U	25	810 U	10 J	5.1 J	460 U	11 U	15	700 U	9.0 J	7.2 J	10 J	640 U	26	820 U	20 U	960 U	9.8 J	18 J	890 U		
Benzene	71-43-2	1200	5100	NA	430 U	6.9 UJ	370 U	6.2 J+	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
Bromodichloromethane	75-27-4	290	1300	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
Carbon disulfide	75-15-0	770000	3500000	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	17	480 U	3.2 J	9.7 U	450 U		
Chloroethane	75-00-3	5400000	23000000	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
Chloroform	67-66-3	320	1400	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	430 U	6.9 U	370 U	3.4 J	400 U	5.4 U	4.0 U	230 U	5.3 U	3.0 J	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
Cyclohexane	110-82-7	6500000	27000000	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	4.1 J+	450 U		
Ethylbenzene	100-41-4	5800	25000	NA	430 U	1.3 J+	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	2.8 J+	350 U	5.3 U	4.7 U	2 J	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	2.5 J+	450 U		
Isopropylbenzene	98-82-8	1900000	9900000	NA	430 U	1.8 J+	370 U	9.2 UJ	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 UJ	350 U	5.3 U	4.7 U	5.8 UJ	320 U	R	410 U	R	480 U	8 U	4.9 J+	450 U		
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	430 U	5.0 J+	370 U	4.6 J	400 U	5.4 U	4.0 U	230 U	3.8 J	17 J+	55 J	5.3 U	4.7 U	7.8	63 J	9.5 UJ	410 U	2.5 J+	480 U	8 U	6 J+	450 U		
Methyl Acetate	79-20-9	780000000	1200000000	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	100 J	3.4 J+	89 J	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	3.9 J+	480 U	1.9 J	12 J+	62 J		
Methylene chloride	75-09-2	57000	1000000	NA	430 U	15 J+	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	15	410 U	10 U	480 U	8 U	9.7 U	450 U		
o-Xylene	95-47-6	640000	2800000	NA	430 U	3.4 J+	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	1.8 J	9.5 J+	350 U	5.3 U	4.7 U	3.8 J	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	5.9 J+	450 U		
Styrene	100-42-5	6000000	35000000	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
Tetrachloroethene	127-18-4	24000	100000	44	5100	2600 J+	7600	4300	11000	46	53	230	4.7 J	3000 J+	12000	35	47	5.8 U	320 U	7 J+	410 U	10 UJ	480 U	8 U	4800 J+	6400		
Toluene	108-88-3	4900000	47000000	NA	76 J	11 J+	64 J	10	82 J	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.7 J	62 J	5.4 J+	410 U	10 UJ	480 U	3.3 J	11 J+	450 U		
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	430 U	6.9 UJ	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 UJ	410 U	10 UJ	480 U	8 U	9.7 UJ	450 U		
Trichloroethene	79-01-6	940	6000	34	1500	1300 J+	2200	300	760	5.4 U	0.74 J	230 U	6.1	390 J+	2100	5.3 U	4.7 U	5.8 U	320 U	10 J+	410 U	10 UJ	480 U	8 U	5800 J+	3300		
Vinyl chloride	75-01-4	59	1700	NA	430 U	6.9 U	370 U	9.2 U	400 U	5.4 U	4.0 U	230 U	5.3 U	7.4 U	350 U	5.3 U	4.7 U	5.8 U	320 U	9.5 U	410 U	10 U	480 U	8 U	9.7 U	450 U		
See notes					2	3,2		3		1	3		3		3		1		1		1		2		2			

Notes:
= result greater than the PAL

Laboratory results reported in units of µg/kg

- 1 - Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg)		CAS Number		Screening Levels			ETCA-SBE2-0002-D-113021	ETCA-SBE2-0002-D-113021	ETCA-SBE2-0406-113021	ETCA-SBE2-0406-113021	ETCA-SBE2-0810-113021	ETCA-SBE2-1214-113021	ETCA-SBE3-0002-113021	ETCA-SBE3-0406-113021	ETCA-SBE3-0406-113021	ETCA-SBE3-0810-113021	ETCA-SBE3-0810-113021	ETCA-SBE3-1214-113021	ETCA-SBE3-1214-113021	ETCA-SBE3-1214-113021	ETCA-SBE4-0002-113021	ETCA-SBE4-0002-113021	ETCA-SBE4-0406-113021	ETCA-SBE4-0406-113021	ETCA-SBE4-0810-113021	ETCA-SBE4-0810-113021	ETCA-SBE4-0810-D-113021	ETCA-SBE4-0810-D-113021	ETCA-SBE4-1214-113021
				Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 11:52:00	11/30/2021 11:52:00	11/30/2021 11:55:00	11/30/2021 11:55:00	11/30/2021 12:00:00	11/30/2021 12:05:00	11/30/2021 13:00:00	11/30/2021 13:05:00	11/30/2021 13:10:00	11/30/2021 13:15:00	11/30/2021 13:20:00	11/30/2021 13:25:00	11/30/2021 13:30:00	11/30/2021 13:32:00	11/30/2021 13:33:00								
							Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium					
							EX894	EX894ME	EX895	EX895ME	EX896	EX897	EX898	EX899	EX899ME	EX8A0	EX8A0ME	EX8A1	EX8A1ME	EX8A2	EX8A2ME	EX8A3	EX8A3ME	EX8A4	EX8A4ME	EX8A5	EX8A5ME	EX8A6	
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	2.8 J+	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
1,1-Dichloroethene	75-35-4	230000	1000000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 UJ	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 U			
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	18 J+	530 U	1.4 J	290 U	4.6 U	6.7 U	5.7 U	R	410 U	5.4 UJ	370 U	R	360 U	1.9 J+	390 U	R	350 U	R	330 U	R	370 U	5.8 UJ			
1,2-Dichloroethane	107-06-2	460	2000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	1.6 J	10 J+	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 U	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 U			
1,2-Dichloropropane	78-87-5	2500	11000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 UJ			
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	31 J+	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	R	410 U	5.4 UJ	370 U	R	360 U	R	390 U	R	350 U	R	330 U	R	370 U	5.8 UJ			
2-Butanone	78-93-3	27000000	190000000	NA	27 U	1100 U	8.7 U	590 U	9.1 U	13 U	11 U	12 UJ	810 U	11 UJ	730 U	10 UJ	720 U	13 UJ	770 U	12 UJ	700 U	11 UJ	650 U	13 UJ	740 U	12 U			
2-Hexanone	591-78-6	200000	1300000	NA	27 UJ	1100 U	8.7 U	590 U	9.1 U	13 U	11 U	12 UJ	810 U	11 UJ	730 U	10 UJ	720 U	R	770 U	12 UJ	700 U	11 UJ	650 U	13 UJ	740 U	12 UJ			
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	27 UJ	1100 U	8.7 U	590 U	9.1 U	13 U	11 U	12 UJ	810 U	11 UJ	730 U	10 UJ	720 U	R	770 U	12 UJ	700 U	11 UJ	650 U	13 UJ	740 U	12 UJ			
Acetone	67-64-1	70000000	1100000000	NA	120 J	1100 U	8.3 J	590 U	27	18	7.2 J	31 J+	810 U	12 J+	730 U	18 J+	720 U	12 J+	770 U	14 J+	700 U	28 J+	650 U	26 J+	740 U	9.5 J			
Benzene	71-43-2	1200	5100	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	3.6 J+	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Bromodichloromethane	75-27-4	290	1300	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 UJ			
Carbon disulfide	75-15-0	770000	3500000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	2.2 J+	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 U			
Chloroethane	75-00-3	5400000	23000000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 U			
Chloroform	67-66-3	320	1400	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	650	5.0 UJ	470	6.4 UJ	320 J	6.2 UJ	780	5.4 UJ	280 J	6.3 UJ	300 J	5.8 U			
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	13 U	530 U	4.4 U	290 U	2.2 J	1.6 J	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 UJ	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 U			
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	13 UJ	110 J	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Cyclohexane	110-82-7	6500000	27000000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 UJ			
Ethylbenzene	100-41-4	5800	25000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Isopropylbenzene	98-82-8	1900000	9900000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	R	410 U	5.4 UJ	370 U	R	360 U	R	390 U	R	350 U	R	330 U	R	370 U	5.8 UJ			
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	4.7 J+	530 U	1.1 J	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	64 J	R	85 J	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Methyl Acetate	79-20-9	78000000	1200000000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 U	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 U			
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	5.1 J+	67 J	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	200 J	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 UJ			
Methylene chloride	75-09-2	57000	1000000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	13 J+	410 U	5.4 UJ	370 U	5.0 UJ	360 U	14 J+	390 U	6.2 UJ	350 U	12 J+	330 UJ	6.3 UJ	370 U	5.8 U			
o-Xylene	95-47-6	640000	2800000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	62 J	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Styrene	100-42-5	6000000	35000000	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Tetrachloroethene	127-18-4	24000	100000	44	3500 J+	6900	260	2300	4.6 U	1.2 J	1.8 J	1100 J+	3600	380 J+	1600	1500 J+	7100	1900 J+	22000	480 J+	4400 J+	650 J+	1300	1000 J+	1500	390 J+			
Toluene	108-88-3	4900000	47000000	NA	6.5 J+	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	3.7 J+	410 U	5.4 UJ	370 U	5.0 UJ	1.4 J+	88 J	6.0 J+	120 J	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ		
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 UJ	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 UJ	6.2 UJ	350 U	5.4 UJ	330 UJ	6.3 UJ	370 U	5.8 U			
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	13 UJ	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	R	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Trichloroethene	79-01-6	940	6000	34	2800 J+	3900	90	400	1.3 J	1.6 J	2.9 J	73 J+	410 U	5.4 UJ	370 U	77 J+	1100	230 J+	4600	3.0 J+	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
Vinyl chloride	75-01-4	59	1700	NA	13 U	530 U	4.4 U	290 U	4.6 U	6.7 U	5.7 U	6.2 UJ	410 U	5.4 UJ	370 U	5.0 UJ	360 U	6.4 UJ	390 U	6.2 UJ	350 U	5.4 UJ	330 U	6.3 UJ	370 U	5.8 UJ			
See notes						2		3				1	3	1	3		3		3	1	3	1	2	1	2	1			

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 6 - PDI Summary of Soil Sampling Analytical Results: Other VOCs
East Troy Contaminated Aquifer
Troy, Miami County, OH

Volatile Organic Compounds (µg/kg) CAS Number		Screening Levels			ETCA-SBE4-1214-113021	ETCA-SBE5-0002-113021	ETCA-SBE5-0002-113021	ETCA-SBE5-0002-D-113021	ETCA-SBE5-0002-D-113021	ETCA-SBE5-0406-113021	ETCA-SBE5-0406-113021	ETCA-SBE5-0810-113021	ETCA-SBE5-1214-113021	ETCA-SBF1-0002-113021	ETCA-SBF1-0002-113021	ETCA-SBF1-0406-113021	ETCA-SBF1-0406-113021	ETCA-SBF1-0810-113021	ETCA-SBF1-1214-113021	ETCA-SBF2-0002-113021	ETCA-SBF2-0002-113021	ETCA-SBF2-0406-113021	ETCA-SBF2-0810-113021	ETCA-SBG1-0002-113021	ETCA-SBG1-0002-113021	ETCA-SBG1-0406-113021		
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 13:33:00	11/30/2021 13:35:00	11/30/2021 13:35:00	11/30/2021 13:37:00	11/30/2021 13:37:00	11/30/2021 13:40:00	11/30/2021 13:40:00	11/30/2021 13:45:00	11/30/2021 14:10:00	11/30/2021 14:10:00	11/30/2021 14:15:00	11/30/2021 14:15:00	11/30/2021 14:20:00	11/30/2021 14:25:00	11/30/2021 14:25:00	11/30/2021 14:30:00	11/30/2021 14:35:00	11/30/2021 14:35:00	11/30/2021 14:40:00	11/30/2021 14:45:00	11/30/2021 14:30:00	11/30/2021 14:35:00		
					Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low	Medium	Low
					EX8A6ME	EX8A7	EX8A7ME	EX8A8	EX8A8ME	EX8A9	EX8A9ME	EX8B0	EX8B1	EX8B5	EX8B5ME	EX8B6	EX8B6ME	EX8B7	EX8B8	EX8B2	EX8B2ME	EX8B3	EX8B4	EX8B9	EX8B9ME	EX8C0		
1,1,2,2-Tetrachloroethane	79-34-5	600	2700	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
1,1,2-Trichloroethane	79-00-5	1100	5000	NA	350 U	150 J+	470	16 J+	370 U	95	110 J	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	9.9 J+	480 U	5.4 U		
1,1-Dichloroethene	75-35-4	230000	1000000	NA	350 UJ	4.7 J+	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
1,2,4-Trimethylbenzene	95-63-6	300000	1800000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 UJ	440 U	4.8 U	7.2 U	R	360 U	4.8 U	280 U	5 U	4.9 U	R	360 U	5.2 U	5.7 U	3.6 J+	480 U	5.4 U		
1,2-Dichloroethane	107-06-2	460	2000	NA	350 UJ	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	1.6 J	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
1,2-Dichloropropane	78-87-5	2500	11000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
1,3,5-Trimethylbenzene	108-67-8	270000	1500000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 UJ	440 U	4.8 U	7.2 U	R	360 U	4.8 U	280 U	5 U	4.9 U	R	360 U	5.2 U	5.7 U	R	480 U	5.4 U		
2-Butanone	78-93-3	27000000	190000000	NA	690 U	11 UJ	760 U	11 UJ	750 U	13 U	870 U	9.5 U	14 U	10 U	720 U	9.5 U	560 U	9.9 U	9.7 U	11 U	720 U	10 U	11 U	17 U	960 U	11 U		
2-Hexanone	591-78-6	200000	1300000	NA	690 U	R	760 U	11 UJ	750 U	13 U	870 U	9.5 U	14 U	10 UJ	720 U	9.5 U	560 U	9.9 U	9.7 U	11 UJ	720 U	10 U	11 U	17 UJ	960 U	11 U		
4-Methyl-2-pentanone	108-10-1	33000000	140000000	NA	690 U	R	760 U	11 UJ	750 U	13 U	870 U	9.5 U	14 U	10 UJ	720 U	9.5 U	560 U	9.9 U	9.7 U	11 UJ	720 U	10 U	11 U	17 UJ	960 U	11 U		
Acetone	67-64-1	70000000	1100000000	NA	690 U	8.7 J+	760 U	11 UJ	750 U	13 U	870 U	9.5 U	14 U	10 U	720 U	9.5 U	560 U	9.9 U	9.7 U	11 U	720 U	10 U	18	17 U	960 U	8.9 J		
Benzene	71-43-2	1200	5100	NA	350 U	2.4 J+	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Bromodichloromethane	75-27-4	290	1300	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Carbon disulfide	75-15-0	770000	3500000	NA	350 U	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
Chloroethane	75-00-3	5400000	23000000	NA	350 U	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
Chloroform	67-66-3	320	1400	NA	350 U	5.5 UJ	300 J	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
cis-1,2-Dichloroethene	156-59-2	160000	2300000	NA	350 UJ	10 J+	55 J	5.3 J+	370 U	4.5 J	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	6.8	8.7 U	480 U	5.4 U		
cis-1,3-Dichloropropene	10061-01-5	#N/A	#N/A	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Cyclohexane	110-82-7	6500000	27000000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Ethylbenzene	100-41-4	5800	25000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Isopropylbenzene	98-82-8	1900000	9900000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 UJ	440 U	4.8 U	7.2 U	R	360 U	4.8 U	280 U	5 U	4.9 U	R	360 U	5.2 U	5.7 U	R	480 U	5.4 U		
m,p-Xylene	179601-23-1	#N/A	#N/A	NA	350 U	2.7 J+	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	1.6 J+	81 J	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	4.6 J+	480 U	5.4 U		
Methyl Acetate	79-20-9	78000000	1200000000	NA	350 UJ	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
Methylcyclohexane	108-87-2	#N/A	#N/A	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	88 J	4.8 U	60 J	5 U	4.9 U	5.7 UJ	140 J	5.2 U	5.7 U	5.7 J+	120 J	5.4 U		
Methylene chloride	75-09-2	57000	1000000	NA	350 UJ	5.5 UJ	380 U	5.3 UJ	370 U	12	440 U	4.8 U	7.2 U	8	360 U	4.8 U	280 U	5 U	4.9 U	11	360 U	5.2 U	5.7 U	17 J+	480 U	5.4 U		
o-Xylene	95-47-6	640000	2800000	NA	350 U	1.8 J+	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	3.3 J	480 U	5.4 U		
Styrene	100-42-5	6000000	35000000	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Tetrachloroethene	127-18-4	24000	100000	44	670	110 J+	1600 J	49 J+	310 J	890 J+	1700	23	24	6.6 J+	120 J	4.9	82 J	3.6 J	4.9 U	450 J+	4100	72	87	1300 J+	5100	11		
Toluene	108-88-3	4900000	47000000	NA	350 U	2.3 J+	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	72 J	4.8 U	49 J	5 U	4.9 U	5.7 U	360 U	5.2 U	2.2 J	12 J+	85 J	5.4 U		
trans-1,2-Dichloroethene	156-60-5	70000	300000	NA	350 UJ	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
trans-1,3-Dichloropropene	10061-02-6	#N/A	#N/A	NA	350 U	R	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 UJ	360 U	4.8 U	280 U	5 U	4.9 U	5.7 UJ	360 U	5.2 U	5.7 U	8.7 UJ	480 U	5.4 U		
Trichloroethene	79-01-6	940	6000	34	350 U	22000 J+	45000 J	5500 J+	10000 J	590 J+	450	0.94 J	7.2 U	5.2 UJ	360 U	3.4 J	280 U	5 U	4.9 U	57 J+	360	1.8 J	6.3	10000 J+	19000	2.8 J		
Vinyl chloride	75-01-4	59	1700	NA	350 U	5.5 UJ	380 U	5.3 UJ	370 U	6.6 U	440 U	4.8 U	7.2 U	5.2 U	360 U	4.8 U	280 U	5 U	4.9 U	5.7 U	360 U	5.2 U	5.7 U	8.7 U	480 U	5.4 U		
See notes					2		3, 2		3, 2	2	2			1	3	1	3			3				3, 2				

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Volatile Organic Compounds (µg/kg)		Screening Levels			ETCA-SBG1-0810-113021	ETCA-SBG1-1214-113021	ETCA-SBG1-1214-D-113021	ETCA-SBG2-0002-113021	ETCA-SBG2-0002-113021	ETCA-SBG2-0406-113021	ETCA-SBG2-0406-113021	ETCA-SBG2-0810-113021	ETCA-SBG2-1214-113021	ETCA-SBG3-0002-041422	ETCA-SBG3-0406-041422	ETCA-SBG3-0406-D-041422	ETCA-SBG3-0810-041422	ETCA-SBG3-1214-041422	ETCA-SBG3-1214-041422	ETCA-SBH1-0002-113021	ETCA-SBH1-0002-113021	ETCA-SBH1-0002-D-113021	ETCA-SBH1-0002-D-113021	ETCA-SBH1-0406-113021	ETCA-SBH1-0810-113021	ETCA-SBH1-1214-113021	ETCA-SBH2-0002-113021		
		Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 14:40:00	11/30/2021 14:45:00	11/30/2021 14:47:00	11/30/2021 14:50:00	11/30/2021 14:50:00	11/30/2021 14:55:00	11/30/2021 14:55:00	11/30/2021 15:00:00	11/30/2021 15:05:00	04/14/2022 10:38:00	04/14/2022 10:44:00	04/14/2022 10:42:00	04/14/2022 10:44:00	04/14/2022 10:46:00	11/30/2021 15:15:00	11/30/2021 15:15:00	11/30/2021 15:17:00	11/30/2021 15:17:00	11/30/2021 15:20:00	11/30/2021 15:25:00	11/30/2021 15:30:00	11/30/2021 15:35:00			
					Low	Low	Low	Low	Medium	Low	Medium	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Medium	Medium	Low	Medium	Low	Low	Low	Low
					EX8C1	EX8C2	EX8C3	EX8C4	EX8C4ME	EX8C5	EX8C5ME	EX8C6	EX8C7	EX8C9	EX8R0	EX8R1	EX8R2	EX8R3	EX8C8	EX8C8ME	EX8C9	EX8C9ME	EX8D0	EX8D1	EX8D2	EX8D3			
CAS Number		79-34-5	600	2700	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
1,1,2-Trichloroethane		79-00-5	1100	5000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	19 J+	1100 J	19 J+	260 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
1,1-Dichloroethene		75-35-4	230000	1000000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 UJ	5.1 U	6.1 UJ	6.5 U	6.5 UJ			
1,2,4-Trimethylbenzene		95-63-6	300000	1800000	NA	5.8 U	5.6 U	5 U	2.4 J+	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	94 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
1,2-Dichloroethane		107-06-2	460	2000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	4.8 J+	420 UJ	5.1 U	6.1 U	6.5 U	6.5 UJ			
1,2-Dichloropropane		78-87-5	2500	11000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
1,3,5-Trimethylbenzene		108-67-8	270000	1500000	NA	5.8 U	5.6 U	5 U	R	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
2-Butanone		78-93-3	27000000	190000000	NA	12 U	11 U	10 U	13 UJ	640 U	9.5 U	560 U	10 U	12 U	9.0 UJ	8.9 UJ	9.8 UJ	11 UJ	14 UJ	R	1000 U	15 UJ	840 U	10 U	12 U	13 U	13 UJ		
2-Hexanone		591-78-6	200000	1300000	NA	12 U	11 U	10 U	13 UJ	640 U	9.5 UJ	560 U	10 U	12 U	9.0 UJ	8.9 UJ	9.8 UJ	11 UJ	14 UJ	R	1000 U	R	840 U	10 U	12 U	13 U	13 UJ		
4-Methyl-2-pentanone		108-10-1	33000000	140000000	NA	12 U	11 U	10 U	13 UJ	640 U	9.5 UJ	560 U	10 U	12 U	9.0 UJ	8.9 UJ	9.8 UJ	11 UJ	14 UJ	R	1000 U	R	840 U	10 U	12 U	13 U	13 UJ		
Acetone		67-64-1	70000000	1100000000	NA	12 U	11 U	10 U	13 UJ	640 U	8.2 J	560 U	8.9 J	12 U	7.4 J	37 J	26 J	8.1 J	50 J	21 J	1000 U	18 J+	840 U	6.2 J	7.7 J	5.5 J	12 J+		
Benzene		71-43-2	1200	5100	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Bromodichloromethane		75-27-4	290	1300	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Carbon disulfide		75-15-0	770000	3500000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Chloroethane		75-00-3	5400000	23000000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Chloroform		67-66-3	320	1400	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
cis-1,2-Dichloroethene		156-59-2	160000	2300000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 UJ	5.1 U	6.1 UJ	6.5 U	6.5 UJ			
cis-1,3-Dichloropropene		10061-01-5	#N/A	#N/A	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Cyclohexane		110-82-7	6500000	27000000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	73 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
Ethylbenzene		100-41-4	5800	25000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Isopropylbenzene		98-82-8	1900000	9900000	NA	5.8 U	5.6 U	5 U	R	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
m,p-Xylene		179601-23-1	#N/A	#N/A	NA	5.8 U	5.6 U	5 U	2.3 J+	320 U	280 U	5.2 U	5.9 U	--	--	--	--	--	R	91 J	R	120 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
Methyl Acetate		79-20-9	78000000	1200000000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 UJ	5.1 U	6.1 U	6.5 U	6.5 UJ			
Methylcyclohexane		108-87-2	#N/A	#N/A	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	200 J	R	280 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
Methylene chloride		75-09-2	57000	1000000	NA	5.8 U	5.6 U	5 U	14 J+	320 U	7.6	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	20 J+	510 U	18 J+	420 UJ	5.1 U	6.1 U	6.5 U	6.5 UJ		
o-Xylene		95-47-6	640000	2800000	NA	5.8 U	5.6 U	5 U	1.7 J+	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	120 J	5.1 U	6.1 U	6.5 U	6.5 UJ			
Styrene		100-42-5	6000000	35000000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Tetrachloroethene		127-18-4	24000	100000	44	23	17 J	9.5 J	410 J+	2200	210 J+	1800	42	15	28 J	21 J	27 J	18 J	12 J	26 J+	1800 J	13 J+	840 J	5.1 U	6.1 U	6.5 U	6.5 UJ		
Toluene		108-88-3	4900000	47000000	NA	5.8 U	5.6 U	5 U	6.8 J+	56 J	4.8 UJ	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	2.7 J+	130 J	3.1 J+	120 J	5.1 U	6.1 U	6.5 U	1.7 J+		
trans-1,2-Dichloroethene		156-60-5	70000	300000	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 UJ	5.1 U	6.1 UJ	6.5 U	6.5 UJ			
trans-1,3-Dichloropropene		10061-02-6	#N/A	#N/A	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	R	510 U	R	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
Trichloroethene		79-01-6	940	6000	34	5.8 U	5.6 U	5 U	280 J+	580	230 J+	1200	2.8 J	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	1900 J+	46000	1500 J+	61000	5.1 U	6.1 U	6.5 U	3.6 J+		
Vinyl chloride		75-01-4	59	1700	NA	5.8 U	5.6 U	5 U	6.6 UJ	320 U	280 U	5.2 U	5.9 U	4.5 UJ	4.5 UJ	4.9 UJ	5.4 UJ	7.2 UJ	8.5 UJ	510 U	7.3 UJ	420 U	5.1 U	6.1 U	6.5 U	6.5 UJ			
See notes									3, 2		3									3		3				1			

Notes:
= result greater than the PAL
Laboratory results reported in units of µg/kg

- 1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.
- 2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.
- 3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Volatile Organic Compounds (µg/kg)		CAS Number	Screening Levels			ETCA-SBH2-0002-113021	ETCA-SBH2-0406-113021	ETCA-SBH2-0810-113021	ETCA-SBH2-1214-113021	ETCA-SBH3-0002-041422	ETCA-SBH3-0406-041422	ETCA-SBH3-0810-041422	ETCA-SBH3-1214-041422	ETCA-SBH1-0002-041422	ETCA-SBH1-0406-041422	ETCA-SBH1-0810-041422	ETCA-SBH1-1214-041422	ETCA-SBH1-1214-D-041422	ETCA-SBI2-0002-041422	ETCA-SBI2-0002-D-041422	ETCA-SBI2-0406-041422	ETCA-SBI2-0810-041422	ETCA-SBI2-1214-041422	ETCA-SBI3-0002-041422	ETCA-SBI3-0406-041422	ETCA-SBI3-0810-041422	ETCA-SBI3-1214-041422				
			Resident Soil (µg/kg)	Industrial Soil (µg/kg)	PAL (µg/kg)	11/30/2021 15:35:00	11/30/2021 15:40:00	11/30/2021 15:45:00	11/30/2021 15:50:00	04/14/2022 11:08:00	04/14/2022 12:56:00	04/14/2022 11:12:00	04/14/2022 12:56:00	04/14/2022 11:14:00	04/14/2022 12:46:00	04/14/2022 12:54:00	04/14/2022 12:56:00	04/14/2022 13:00:00	04/14/2022 13:02:00	04/14/2022 12:14:00	04/14/2022 12:16:00	04/14/2022 12:18:00	04/14/2022 12:20:00	04/14/2022 12:22:00	04/14/2022 11:38:00	04/14/2022 11:50:00	04/14/2022 11:40:00	04/14/2022 11:42:00			
						Medium	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
						EX8D3ME	EX8D4	EX8D5	EX8D6	EX8R4	EX8R5	EX8R6	EX8R7	EX8R8	EX8R9	EX8S0	EX8S1	EX8S2	EX8S3	EX8S4	EX8S5	EX8S6	EX8S7	EX8S8	EX8S9	EX8T0	EX8T1				
1,1,2,2-Tetrachloroethane		79-34-5	600	2700	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
1,1,2-Trichloroethane		79-00-5	1100	5000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
1,1-Dichloroethene		75-35-4	230000	1000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
1,2,4-Trimethylbenzene		95-63-6	300000	1800000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	0.98 J				
1,2-Dichloroethane		107-06-2	460	2000	NA	410 U	3.1 J	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
1,2-Dichloropropane		78-87-5	2500	11000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
1,3,5-Trimethylbenzene		108-67-8	270000	1500000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
2-Butanone		78-93-3	27000000	190000000	NA	820 U	24 U	13 U	9.4 U	13 UJ	11 UJ	12 UJ	10 UJ	15 UJ	11 UJ	11 UJ	11 UJ	11 UJ	10 UJ	9.4 UJ	13 UJ	10 UJ	7.8 UJ	13 UJ	11 UJ	11 UJ	8.1 UJ				
2-Hexanone		591-78-6	200000	1300000	NA	820 U	24 U	13 U	9.4 U	13 UJ	11 UJ	12 UJ	10 UJ	15 UJ	11 UJ	11 UJ	11 UJ	11 UJ	10 UJ	9.4 UJ	13 UJ	10 UJ	7.8 UJ	13 UJ	11 UJ	11 UJ	8.1 UJ				
4-Methyl-2-pentanone		108-10-1	33000000	140000000	NA	820 U	24 U	13 U	9.4 U	13 UJ	11 UJ	12 UJ	10 UJ	15 UJ	11 UJ	11 UJ	11 UJ	11 UJ	10 UJ	9.4 UJ	13 UJ	10 UJ	7.8 UJ	13 UJ	11 UJ	11 UJ	8.1 UJ				
Acetone		67-64-1	700000000	1100000000	NA	820 U	20 J	20	5.3 J	14 J	11 UJ	12 UJ	10 UJ	11 J	9.9 J	17 J	11 UJ	11 UJ	10 UJ	9.4 UJ	13 UJ	10 UJ	7.8 UJ	13 UJ	11 UJ	11 UJ	5.3 J				
Benzene		71-43-2	1200	5100	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Bromodichloromethane		75-27-4	290	1300	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Carbon disulfide		75-15-0	770000	3500000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	9.2 J	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.1 J	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Chloroethane		75-00-3	5400000	23000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Chloroform		67-66-3	320	1400	NA	670	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
cis-1,2-Dichloroethene		156-59-2	160000	2300000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
cis-1,3-Dichloropropene		10061-01-5	#N/A	#N/A	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Cyclohexane		110-82-7	6500000	27000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Ethylbenzene		100-41-4	5800	25000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	0.90 J				
Isopropylbenzene		98-82-8	1900000	9900000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
m,p-Xylene		179601-23-1	#N/A	#N/A	NA	410 U	12 U	6.3 U	4.7 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
Methyl Acetate		79-20-9	78000000	1200000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Methylcyclohexane		108-87-2	#N/A	#N/A	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	2.9 J+	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	1.6 J				
Methylene chloride		75-09-2	57000	1000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
o-Xylene		95-47-6	640000	2800000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	1.2 J	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	0.57 J				
Styrene		100-42-5	6000000	35000000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Tetrachloroethene		127-18-4	24000	100000	44	410 U	12 U	6.3 U	4.7 U	16 J	52 J	210 J	48 J	4.6 J+	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	3.2 J	1.9 J	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	5.2 J				
Toluene		108-88-3	4900000	47000000	NA	410 U	12 U	6.3 U	4.7 U	3.9 J	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	3.6 J	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	1.6 J				
trans-1,2-Dichloroethene		156-60-5	70000	300000	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
trans-1,3-Dichloropropene		10061-02-6	#N/A	#N/A	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Trichloroethene		79-01-6	940	6000	34	410 U	34	4.3 J	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	130 J+	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	1.0 J	4.7 UJ	8.0 J	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
Vinyl chloride		75-01-4	59	1700	NA	410 U	12 U	6.3 U	4.7 U	6.7 UJ	5.6 UJ	5.8 UJ	5.1 UJ	7.7 UJ	5.5 UJ	5.4 UJ	5.5 UJ	5.7 UJ	5.1 UJ	4.7 UJ	6.3 UJ	5.1 UJ	3.9 UJ	6.5 UJ	5.5 UJ	5.3 UJ	4.1 UJ				
See notes																															

Notes:

= result greater than the PAL

Laboratory results reported in units of µg/kg

1- Where two non-detect values or one detect and one non-detect value are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the low-level analysis results are used.

2 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results also meet the RPD criterion of 70%.

3 - Where positive results are reported for a given sample that was analyzed using both low- and medium-level analytical methods, the higher of the two analytical results are used as a conservative approach. These results do not meet the RPD criterion of 70%.

Result Qualifiers: All qualifiers are validated qualifiers.

J = the analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = The analyte was analyzed for, but was not detected at or above the reporting limit (RL)

UJ = The analyte was analyzed for, but was not detected at or above the RL, which is considered approximate due to deficiencies in one or more quality control criteria

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

-- = Not Analyzed

µg/kg = micrograms per kilogram

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

NA = Not Available

PAL = Project Action Limit

Table 7 - PDI Summary of Soil Sampling Analytical Results: Waste Characterization and IDW
East Troy Contaminated Aquifer
Troy, Miami County, OH

July 2022
Revision 0

CAS Number			EPA Regulatory Action Limits (µg/L)	ETCA-WC1-0608- 120121	ETCA-WC1-1214- 120121	ETCA-WC2-0812- 120121	ETCA-WC2-1216- 120121	ETCA-WC2R- 0812-120121	ETCA-WC2R- 1216-120121	ETCA-WC3-0103- 120121	ETCA-WC3-0608- 120121	ETCA-IDW-S1- 120121
				12/01/2021 10:00:00	12/01/2021 10:15:00	12/01/2021 14:00:00	12/01/2021 14:15:00	12/01/2021 15:30:00	12/01/2021 15:45:00	12/01/2021 14:30:00	12/01/2021 14:25:00	12/01/2021 17:00:00
				Low	Low	Low	Low	Low	Low	Low	Low	Low
				EX8D7	EX8D8	EX8D9	EX8E0	EX8E1	EX8E2	EX8E3	EX8E4	EX8E5
TCLP Metals (µg/L)												
Arsenic	7440-38-2	5000	10 U	10 U	--	--	10 U	11 J+	10 J+	10 U	10 U	
Barium	7440-39-3	100000	380	770	--	--	840	270	730	800	600	
Cadmium	7440-43-9	1000	5.0 U	5.0 U	--	--	16	5.0 U	5.0 U	1.5 J	2.0 J	
Chromium	7440-47-3	5000	10 U	34 J+	--	--	26 J+	11 J+	10 U	12 J+	13 J+	
Lead	7439-92-1	5000	15	2.8 J	--	--	230	22	180	21	10	
Selenium	7782-49-2	1000	35 U	35 U	--	--	35 U	35 U	35 U	35 U	35 U	
Silver	7440-22-4	5000	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	
Mercury	7439-97-6	200	0.20 U	0.20 U	--	--	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
TCLP Volatile Organic Compounds (µg/L)												
1,1-Dichloroethene	75-35-4	700	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
1,2-Dichloroethane	107-06-2	500	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
1,4-Dichlorobenzene	106-46-7	7500	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
2-Butanone	78-93-3	200000	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	
Benzene	71-43-2	500	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
Carbon tetrachloride	56-23-5	500	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
Chlorobenzene	108-90-7	100000	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
Chloroform	67-66-3	5000	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
Tetrachloroethene	127-18-4	700	50 U	50 U	16 J	64	--	--	50 U	50 U	14 J	
Trichloroethene	79-01-6	500	50 U	50 U	50 U	90	--	--	50 U	50 U	50 U	
Vinyl chloride	75-01-4	200	50 U	50 U	50 U	50 U	--	--	50 U	50 U	50 U	
TCLP Semivolatile Organic Compounds (µg/L)												
2,4,5-Trichlorophenol	95-95-4	400000	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
2,4,6-Trichlorophenol	88-06-2	2000	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
2,4-Dinitrotoluene	121-14-2	130	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
2-Methylphenol	95-48-7	200000	100 U	100 U	--	--	100 U	100 U	100 U	100 U	100 U	
4-Methylphenol	106-44-5	200000	100 U	100 U	--	--	100 U	100 U	100 U	100 U	100 U	
Hexachlorobenzene	118-74-1	130	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
Hexachlorobutadiene	87-68-3	500	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
Hexachloroethane	67-72-1	3000	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
Nitrobenzene	98-95-3	2000	50 U	50 U	--	--	50 U	50 U	50 U	50 U	50 U	
Pentachlorophenol	87-86-5	100000	100 U	100 U	--	--	100 U	100 U	100 U	100 U	100 U	
Pyridine	110-86-1	5000	100 U	100 U	--	--	100 U	100 U	100 U	100 U	100 U	
General Chemistry												
pH	NA	< 2 or > 12.5	7.55	7.88	--	--	7.71	8.20	7.71	7.63	7.72	
Cyanide, Reactive (mg/kg)	NA	NA	120 U	120 U	130 U	110 U	--	--	33 J	130 U	120 U	
Sulfide, Reactive (mg/kg)	NA	NA	120 U	120 U	130 U	110 U	--	--	110 U	130 U	120 U	

Notes:

Laboratory results reported in units of micrograms per liter, or µg/L for TCLP Metals, TCLP VOCs and TCLP SVOCs

Laboratory results reported in units of milligrams per kilogram, or mg/kg for Reactive Cyanide and Reactive Sulfide

Result Qualifiers: All qualifiers are validated qualifiers.

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample (J- negative bias; J+ positive bias).

U = analyte was not detected at the reporting limit

-- = Not Analyzed

NA = Not Available

CAS Number = Chemical Abstracts Service Registry Number

EPA = U. S. Environmental Protection Agency

IDW = Investigative Derived Waste sample

PAL = Project Action Limit

TCLP = Toxicity Characteristic Leaching Procedure

WC = Waste Characterization sample

TABLE 8
GEOTECHNICAL SAMPLE RESULTS

Sample Location	Sample Depth (feet bgs)	USCS Classification	Liquid Limit Percent	Plastic Limit Percent	Apparent Specific Gravity	Moisture Content Percent
WC1	6-8	Silty sand (SM)	32	30	2.27	17.4
WC1	12-14	Lean clay (CL)	46	20	2.68	23.1
WC2*	8-10	Fat clay (CH)	53	25	NA	25
WC3	1-3	Clayey sand (SC)	33	24	2.32	17.3
WC3	6-8	Lean clay (CL)	34	24	NA	24.7

Notes:

*Only one sample was collected at WC2; a sandy sample was not collected due to limited soil recovery.

bgs Below ground surface

NA Not analyzed due to limited sample volume

USCS Unified Soil Classification System

TABLE 9
SUMMARY OF GROUNDWATER DEPTHS

Soil Boring Location ¹	Depth to Groundwater (feet bgs)
SBA1	NE
SBA2	NE
SBA3	NE
SBA4	NE
SBA5	NE
SBB1	NE
SBB2	NE
SBB3	NE
SBB4	NE
SBB5	NE
SBB6	NE
SBB7	20
SBC1	NE
SBC2	NE
SBC3	NE
SBC4	NE
SBC5	NE
SBD1	21
SBD2	NE
SBD3	18.5
SBD4	NE
SBD5	NE
SBE1	12.5
SBE2	9.5
SBE3	NE
SBE4	17.5
SBE5	NE
SBF1	NE
SBF2	NE
SBG1	NE
SBG2	17
SBG3	13
SBH1	NE
SBH2	NE
SBH3	14
SBI1	18
SBI2	14
SBI3	13
WC1	20
WC2	17
WC3	NE
EPA-122S ²	18.98
EPA-110S ²	12.47
OEPA-13 ²	18.54

Notes:

- 1 Depth to water in soil boring is based on first encountered wet soil interval at the time of drilling
- 2 Nearby monitoring well also gauged to assess depth to groundwater
- bgs Below ground surface
- NE Groundwater not encountered

APPENDICES

Appendix A: Private Utility Locating Reports

Appendix B: Geophysical Survey Report

Appendix C: Soil Boring Logs

Appendix D: Field Logbook

Appendix E: Data Validation Report Cover Letter

Appendix F: Geotechnical Results

Appendix G: IDW Documentation

APPENDIX A

PRIVATE UTILITY LOCATING REPORTS

NOVEMBER 18, 2021

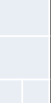
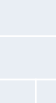
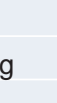
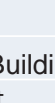
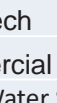
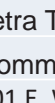
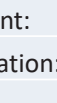
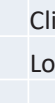
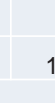
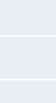
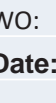
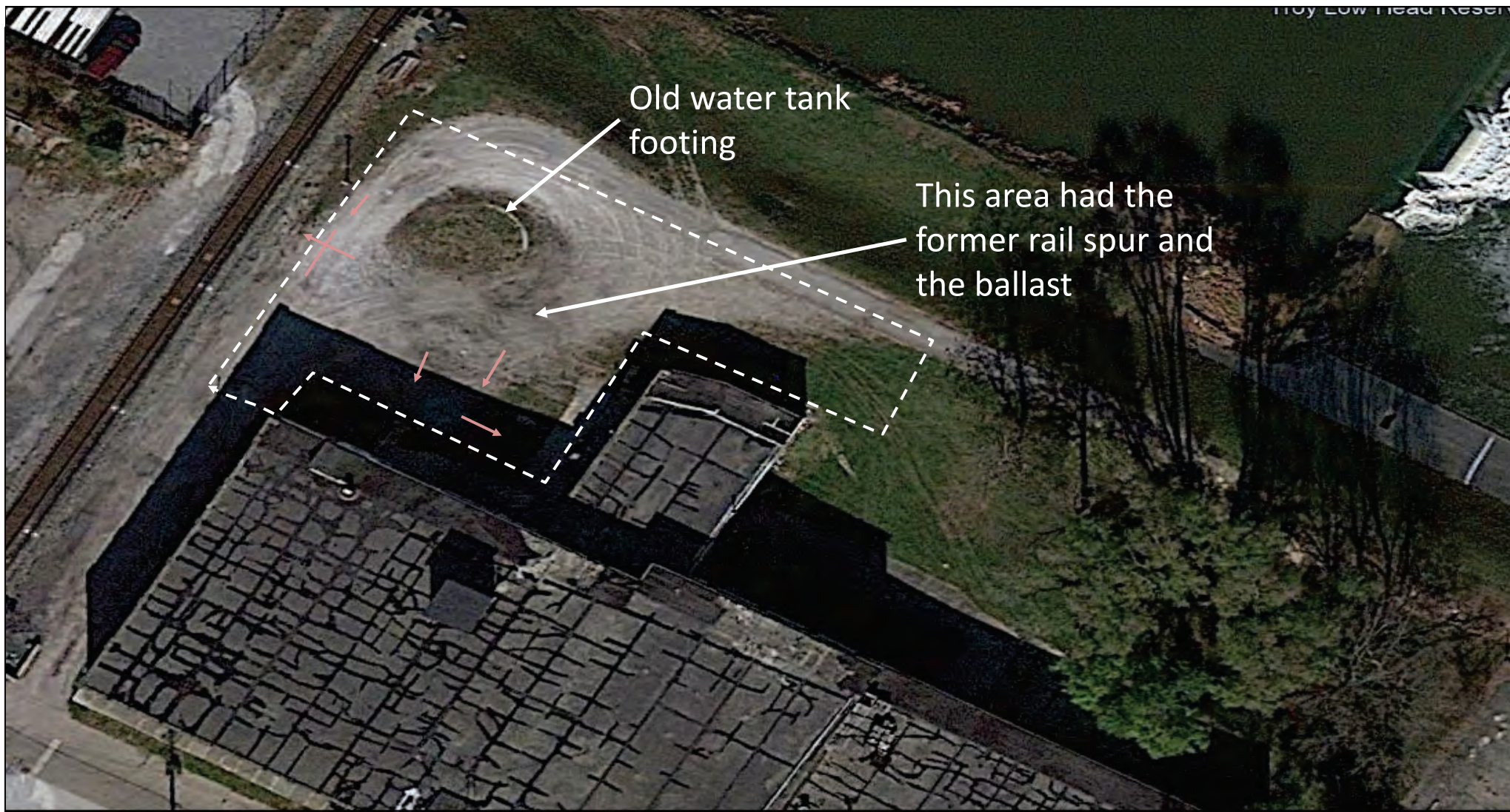
APRIL 13, 2022

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO



** SKETCH NOT TO SCALE **

MPL@MasonPrivateLocating.com

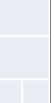
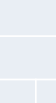
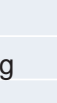
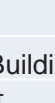
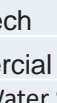
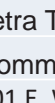
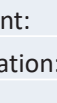
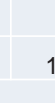
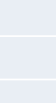
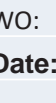
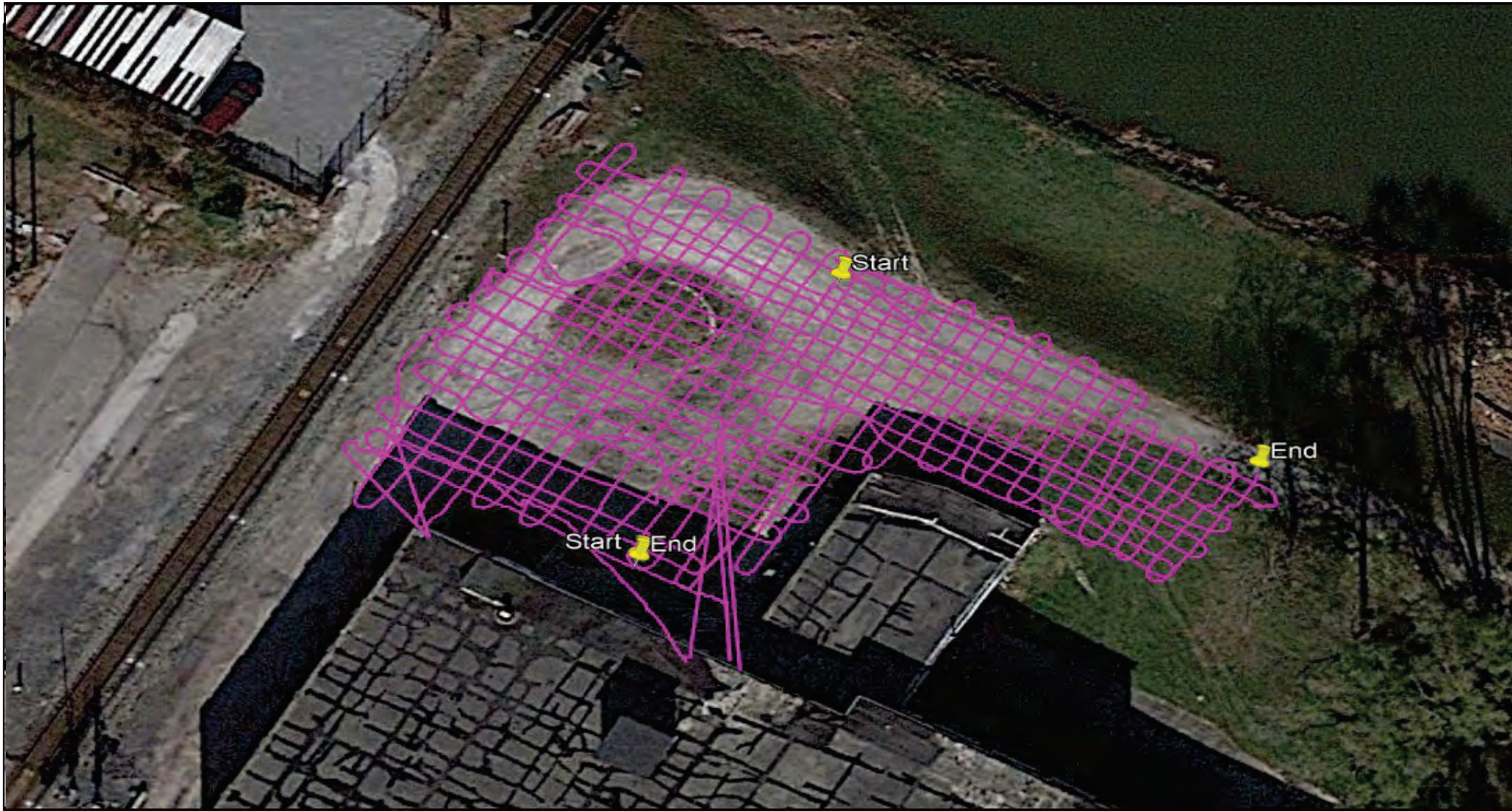


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		Address:	301 E. Water St.,
			Troy, OH.

Tech: D. Hinshaw

1 Of 1

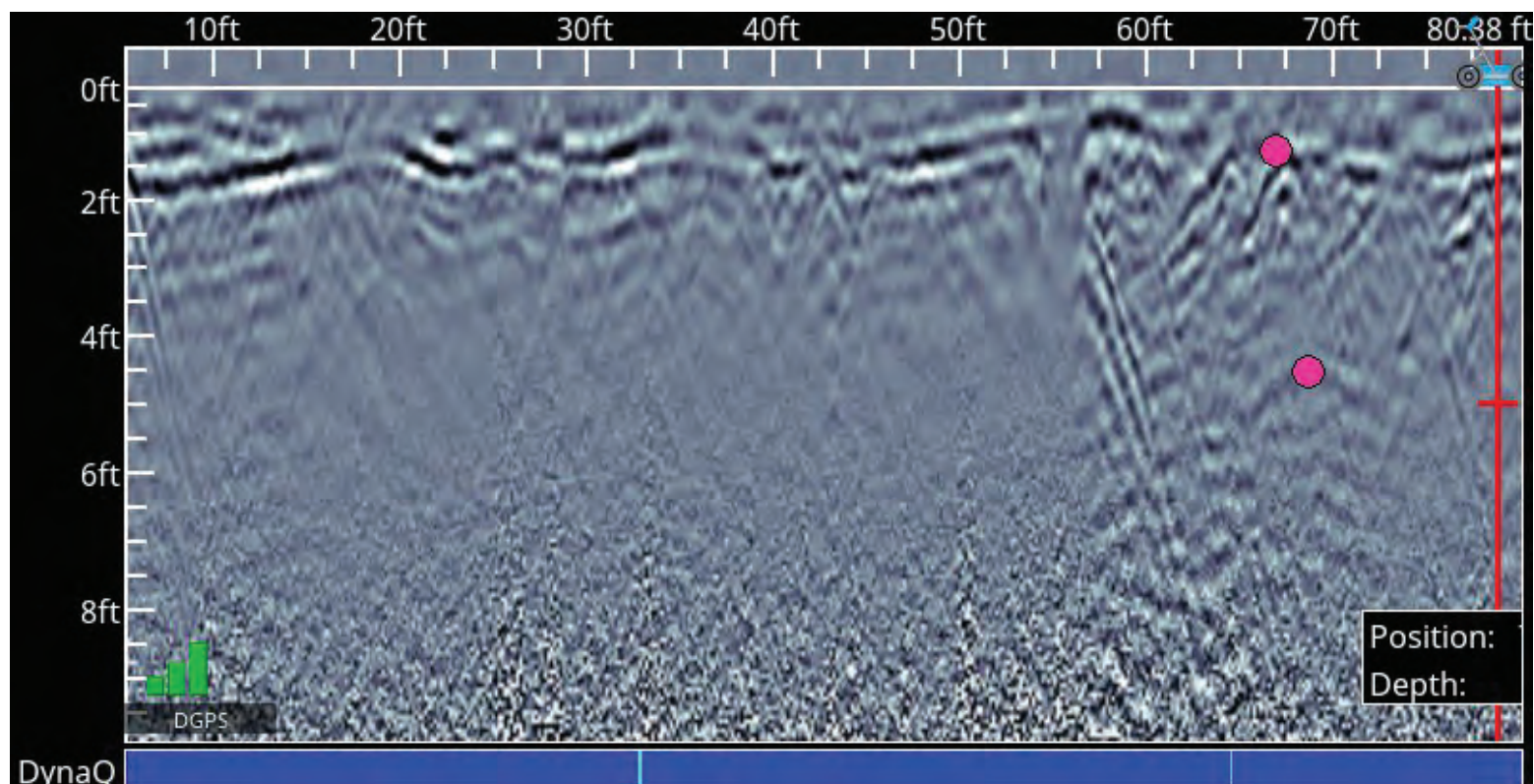
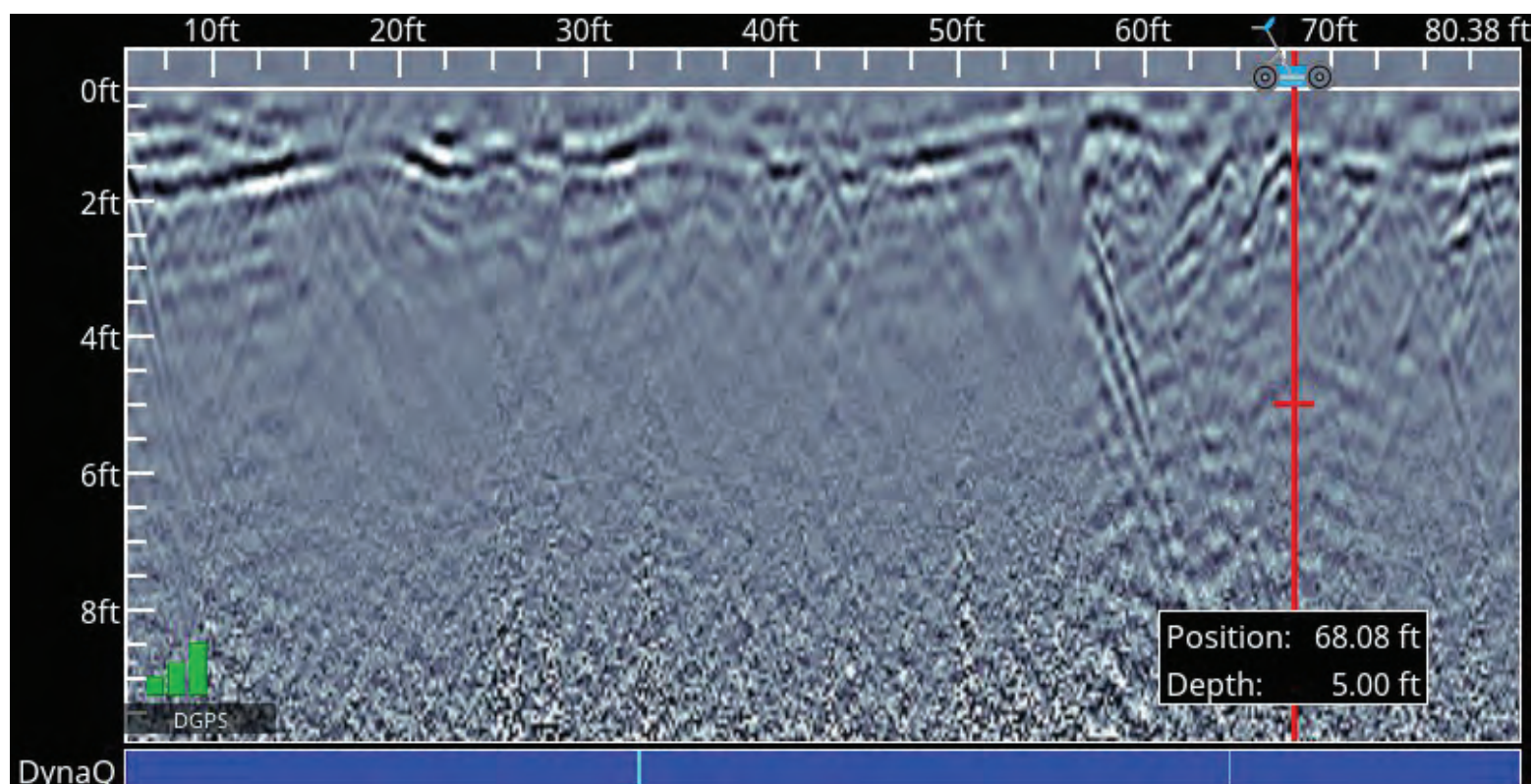


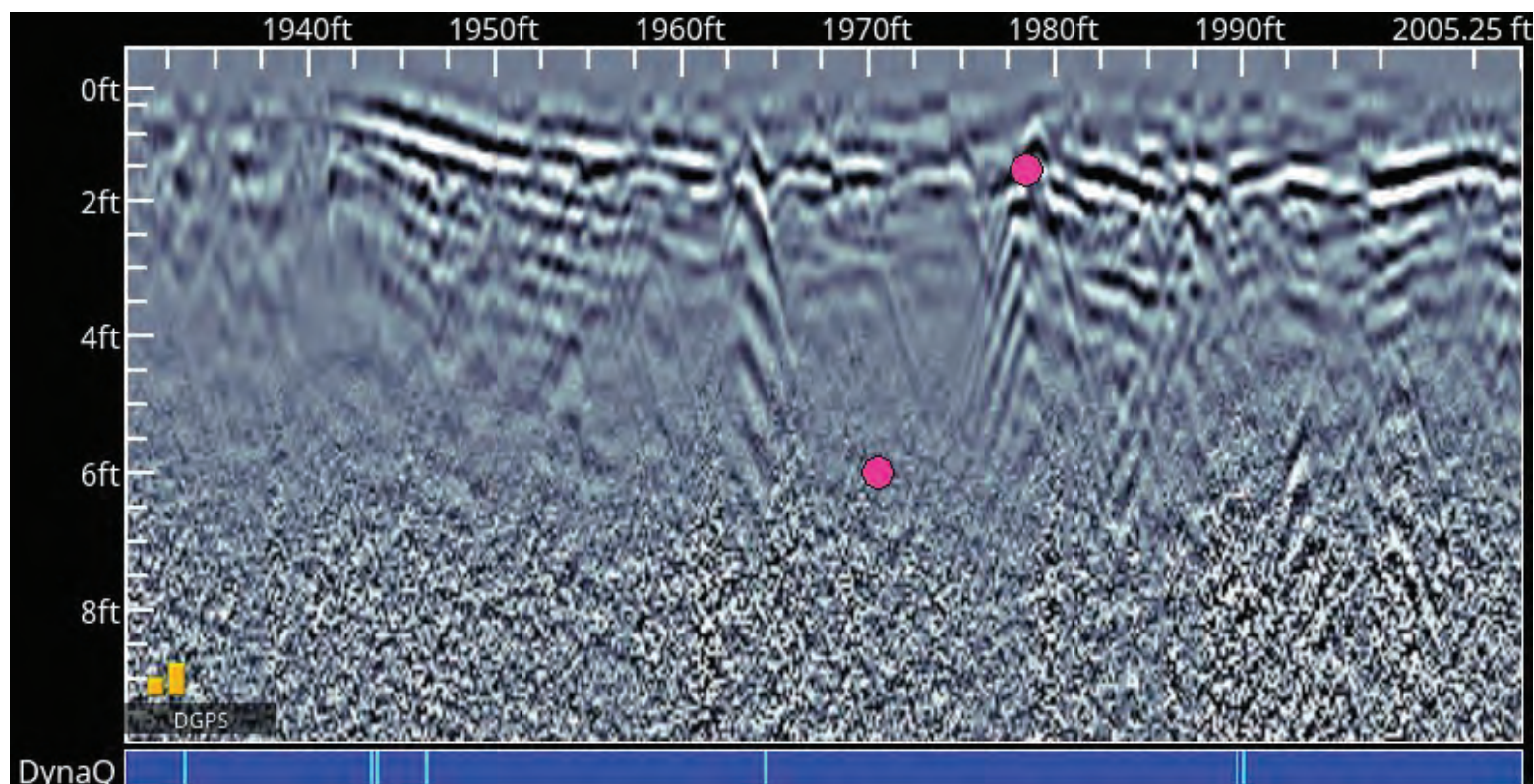
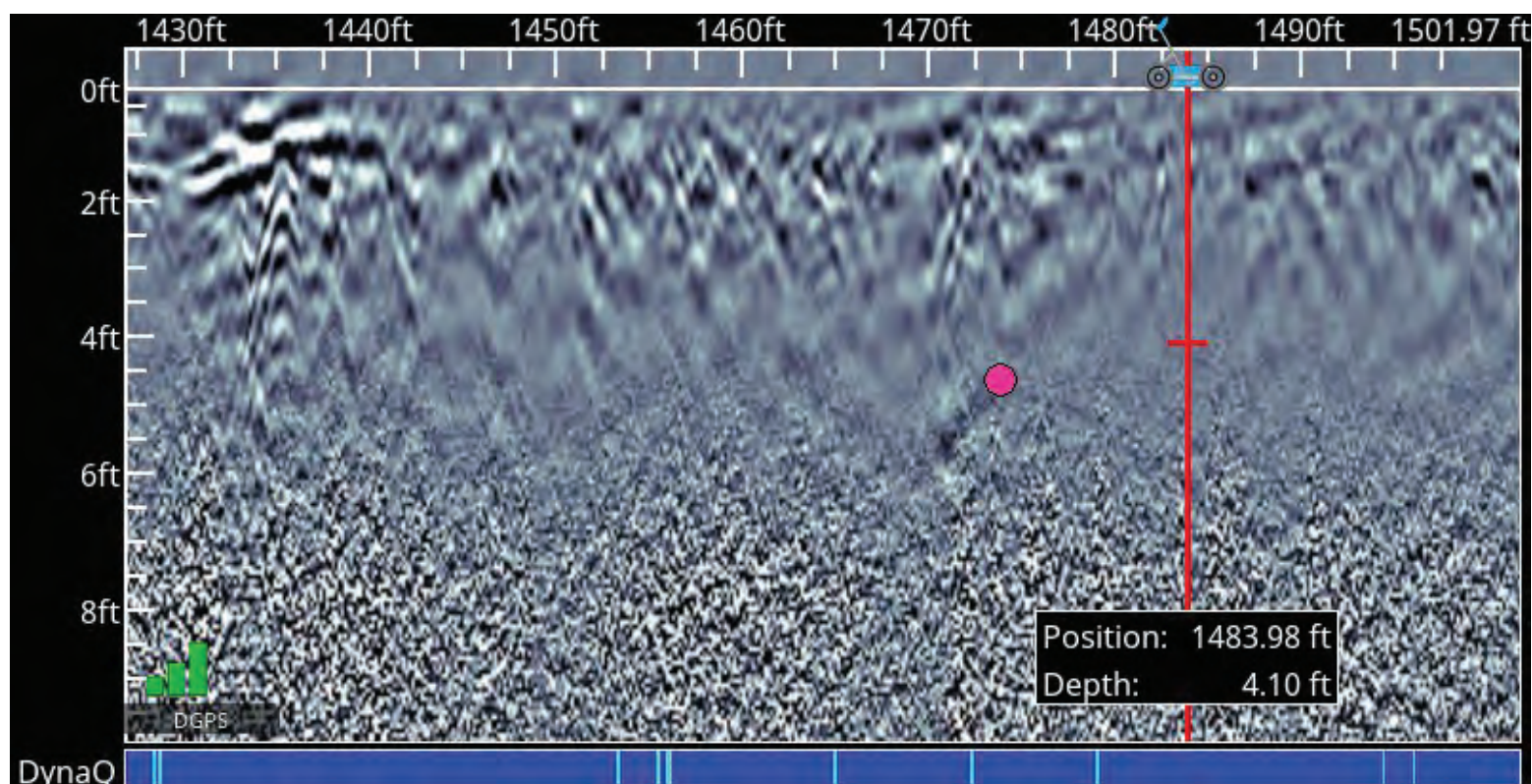
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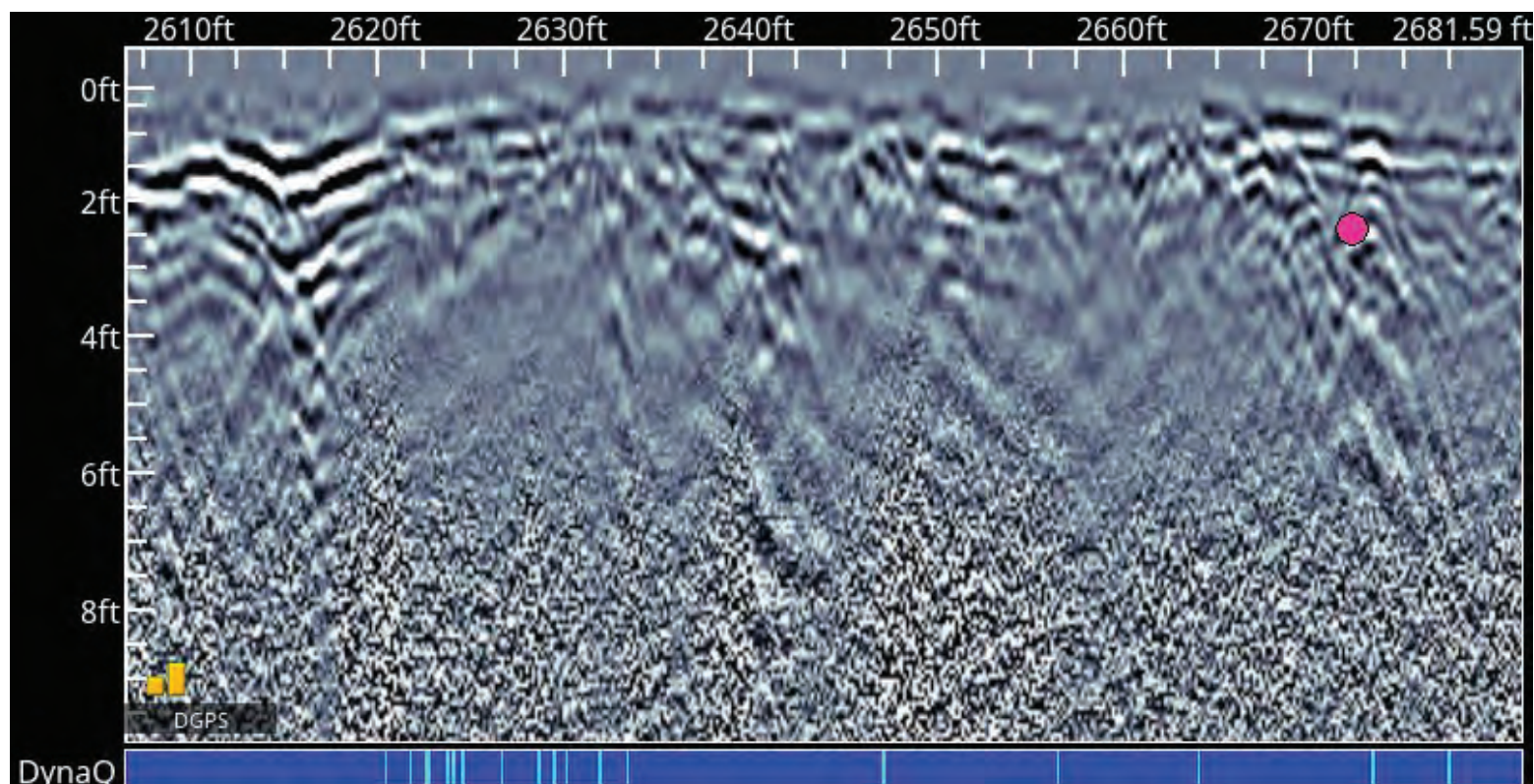
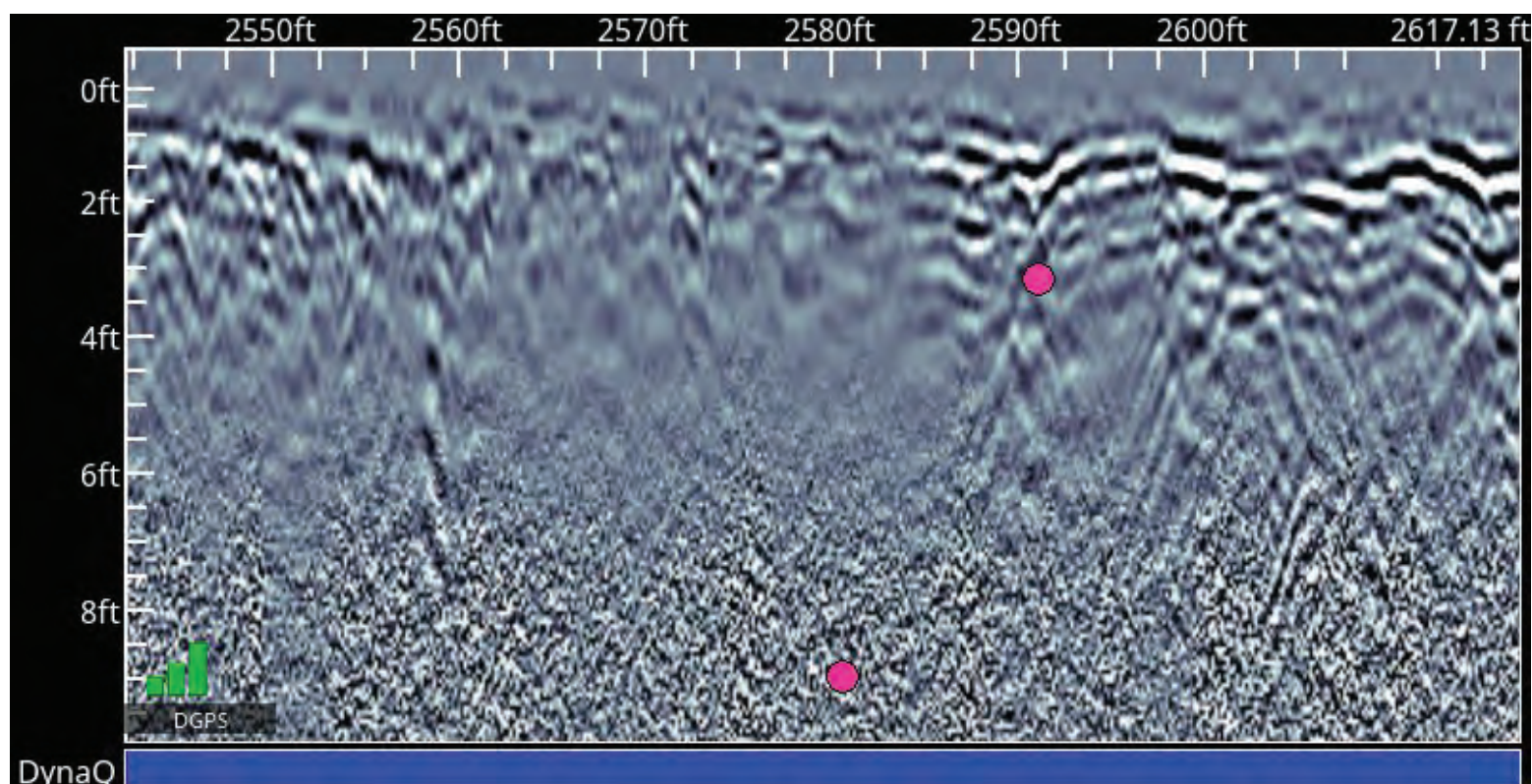


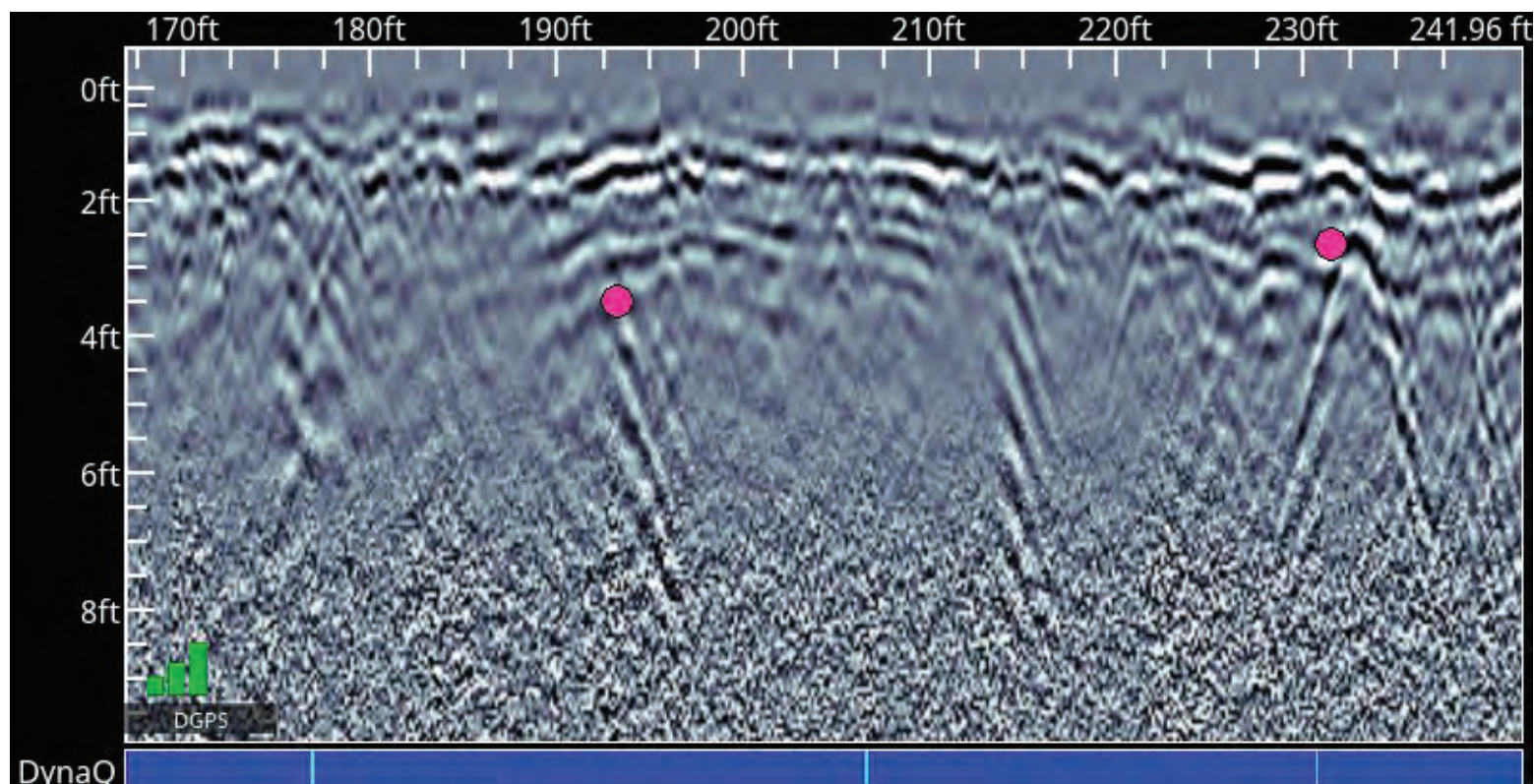
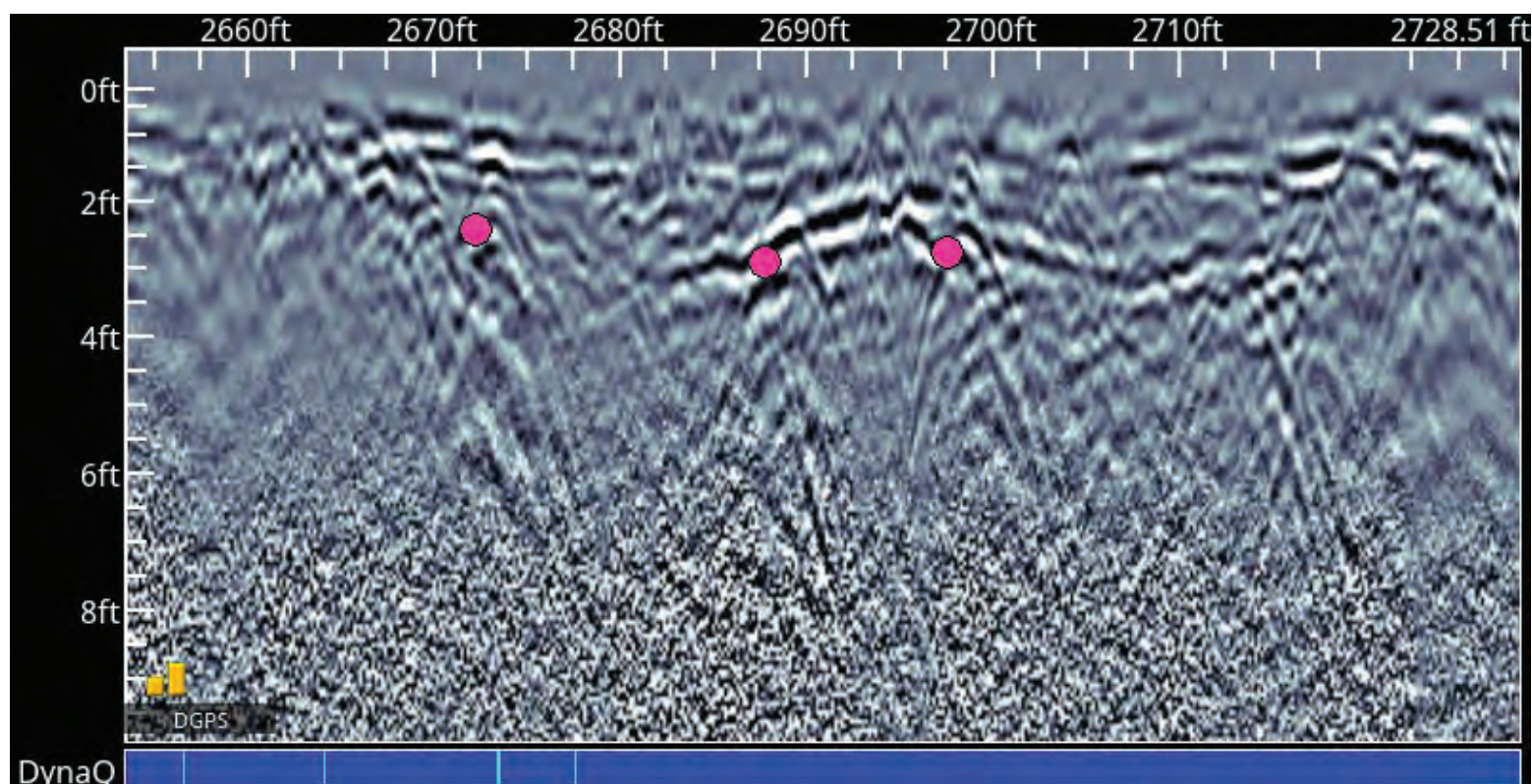
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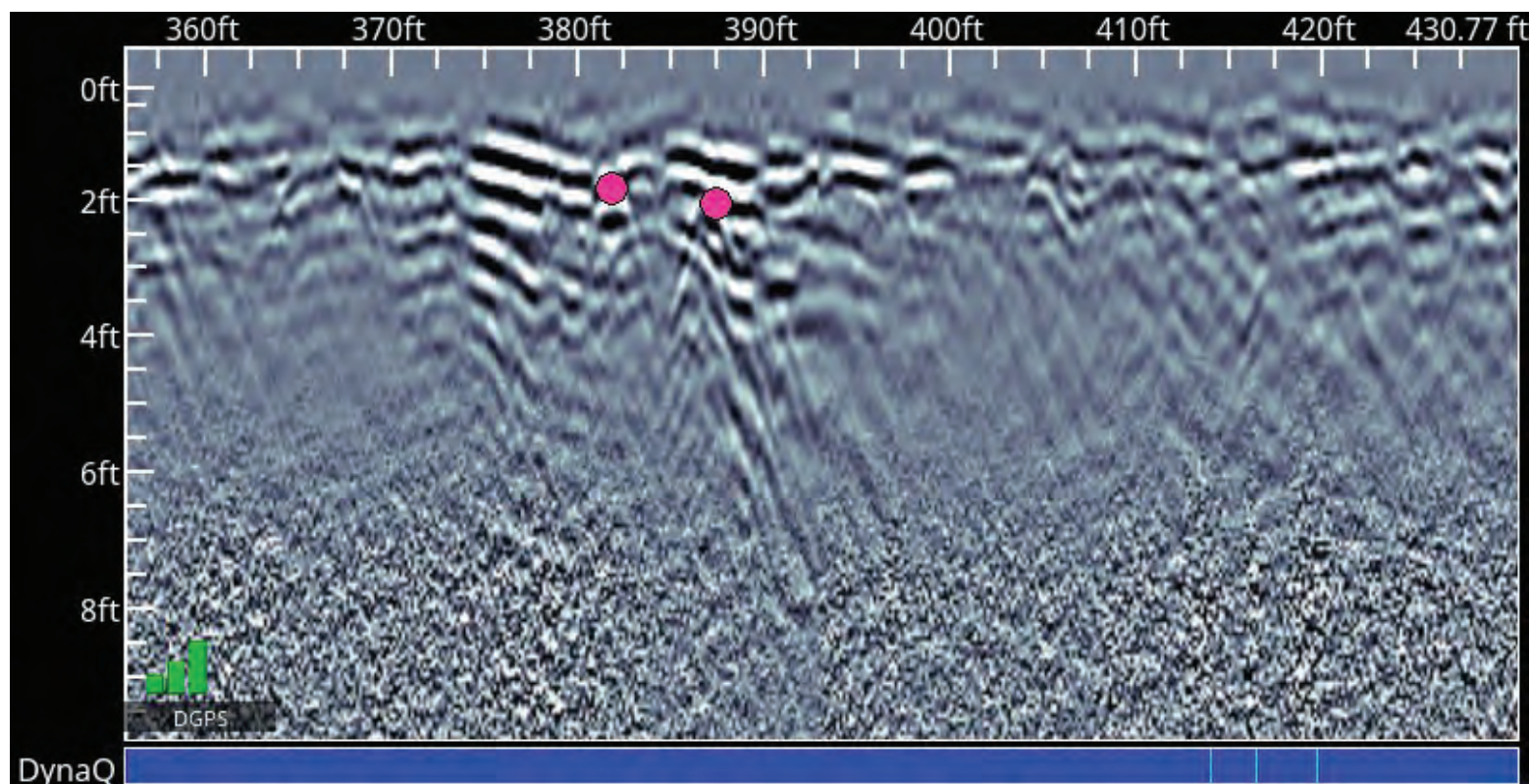
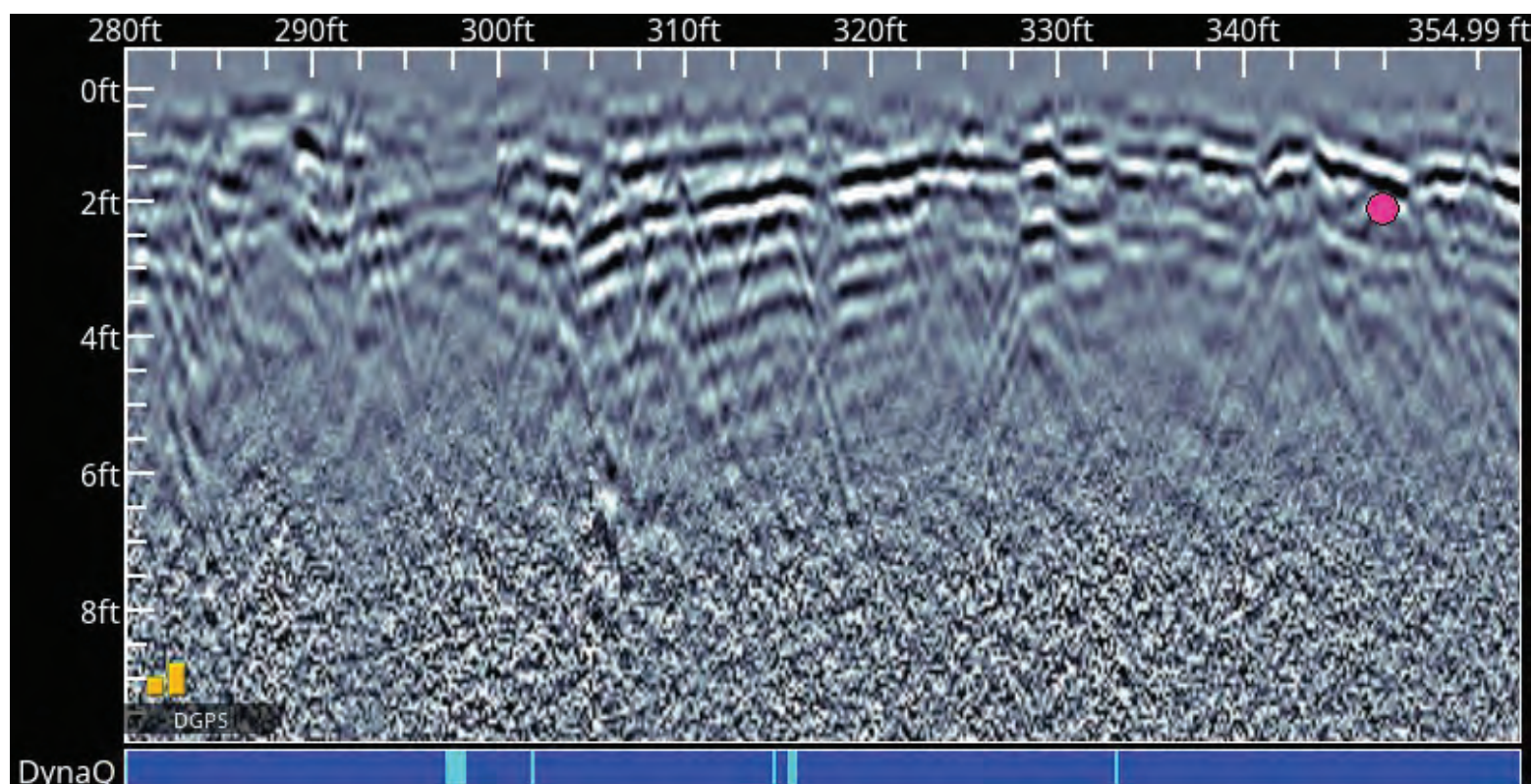
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			301 E. Water St.,		
Tech: D. Hinshaw		Address:	Troy, OH.		1 Of 1

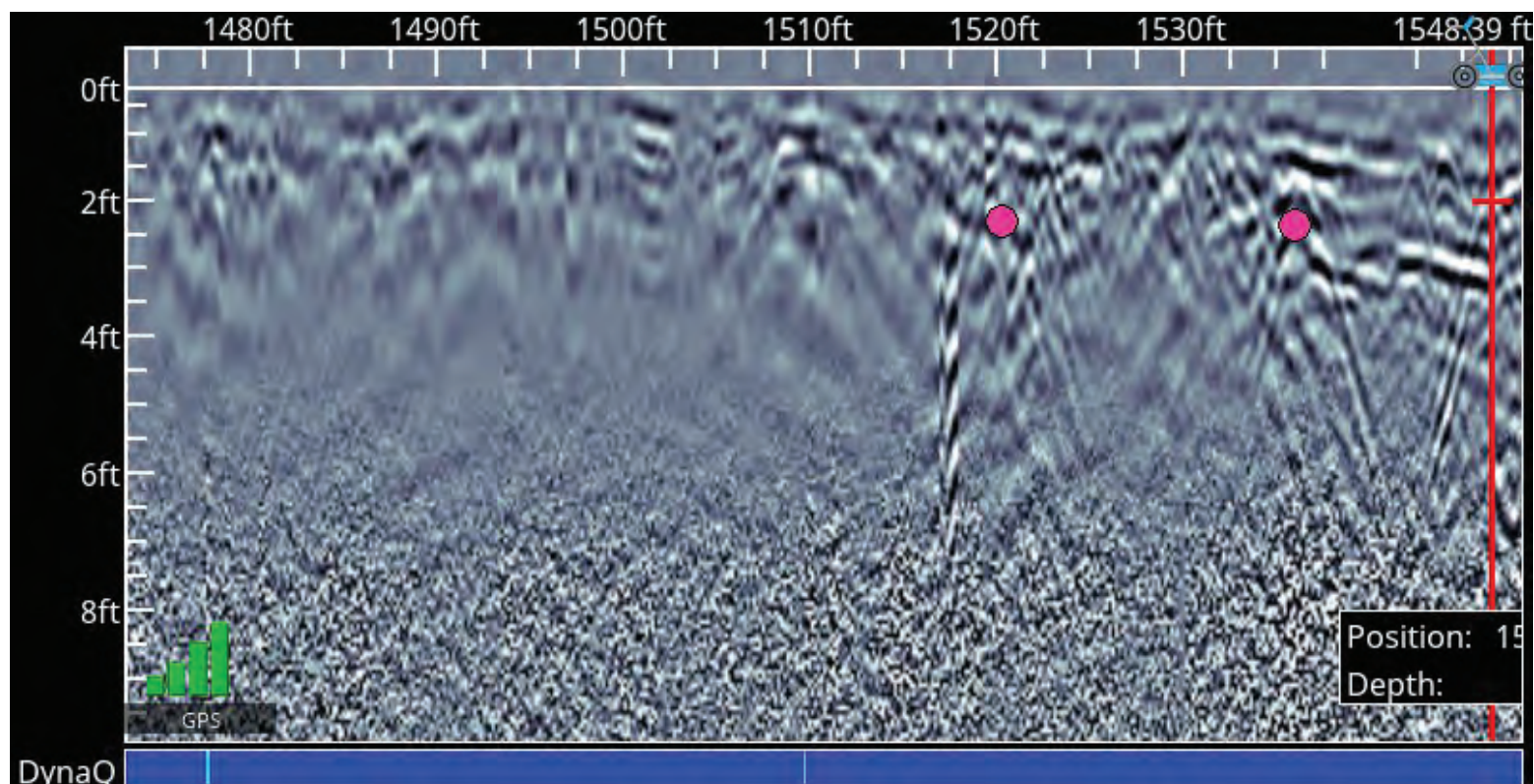
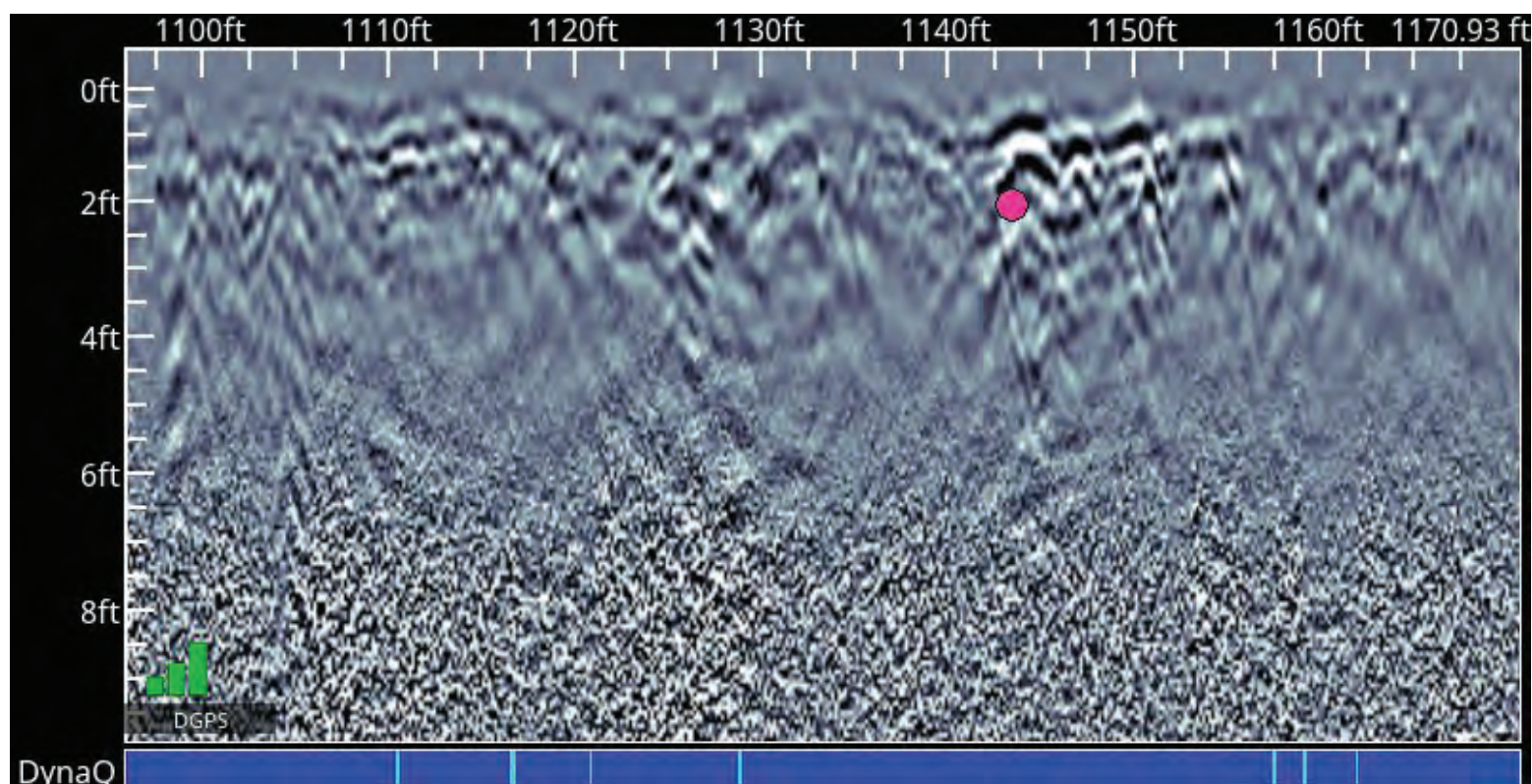


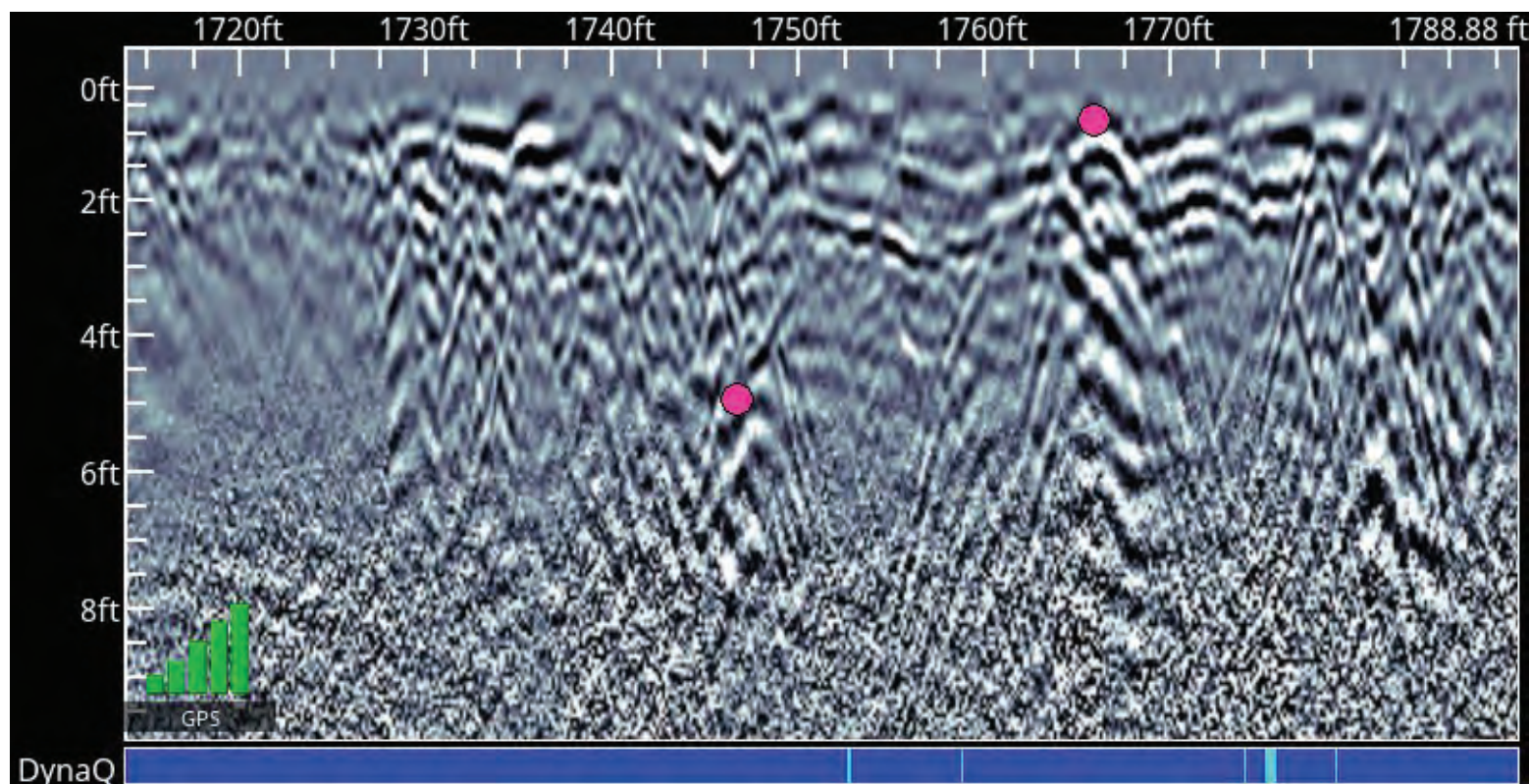
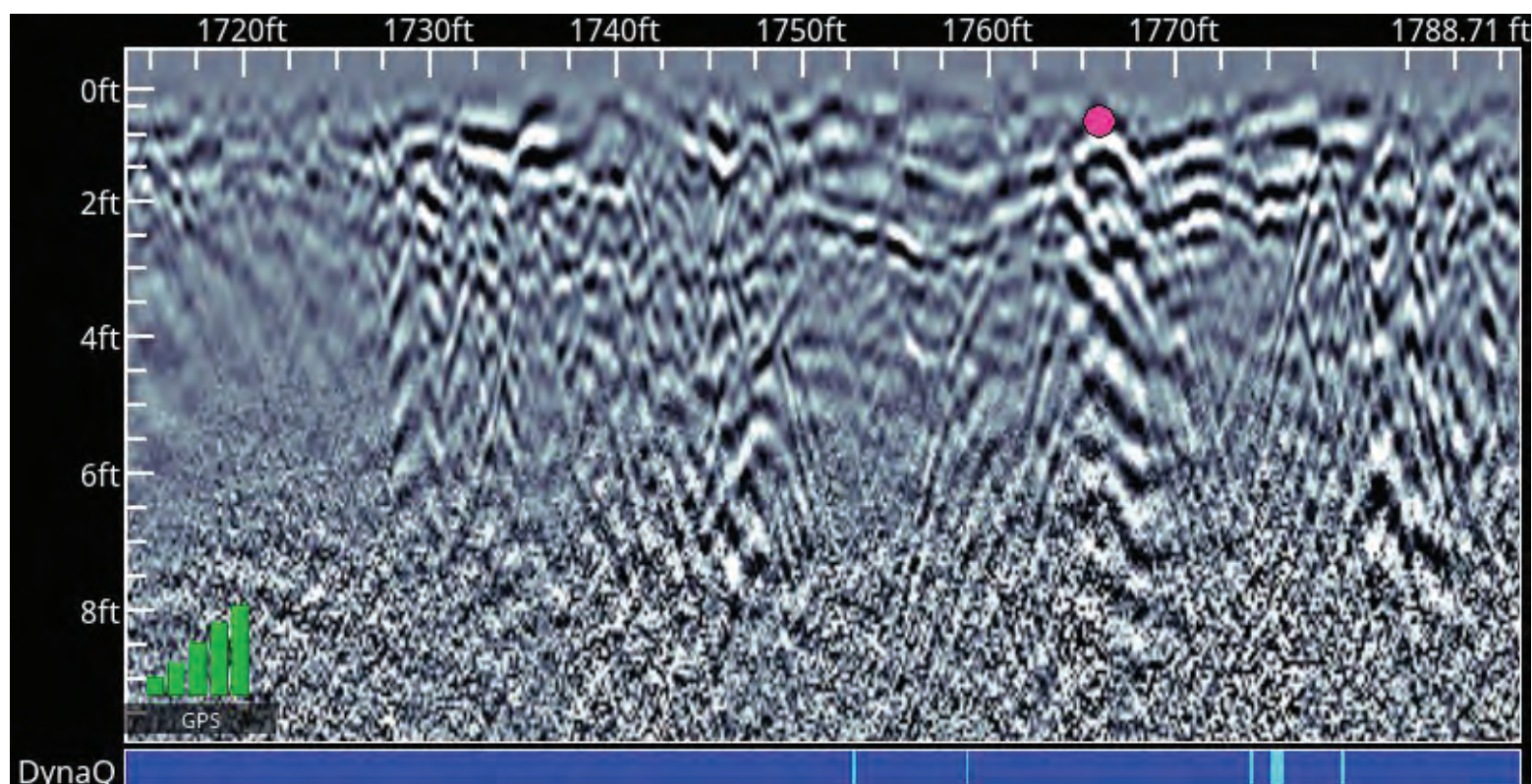


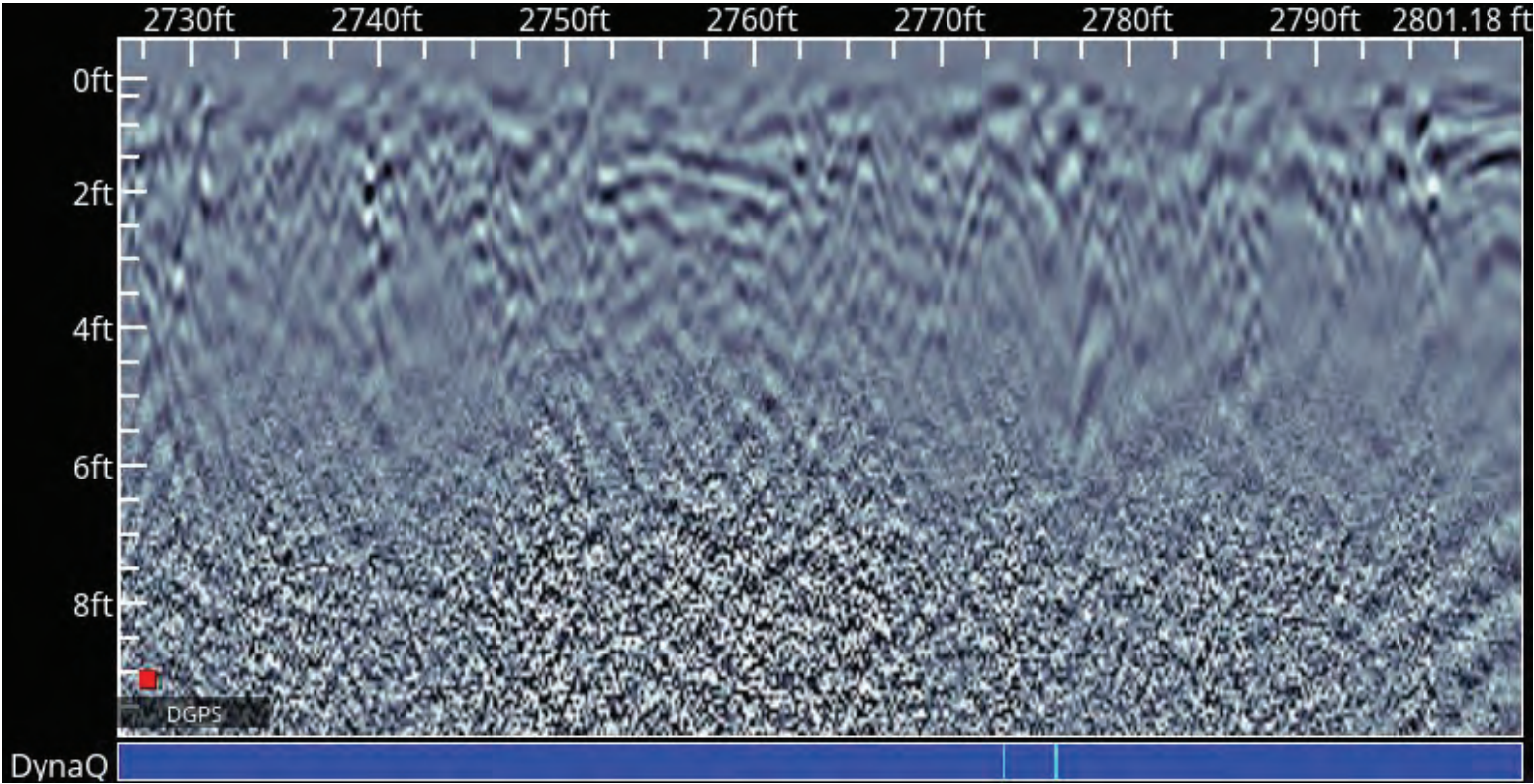


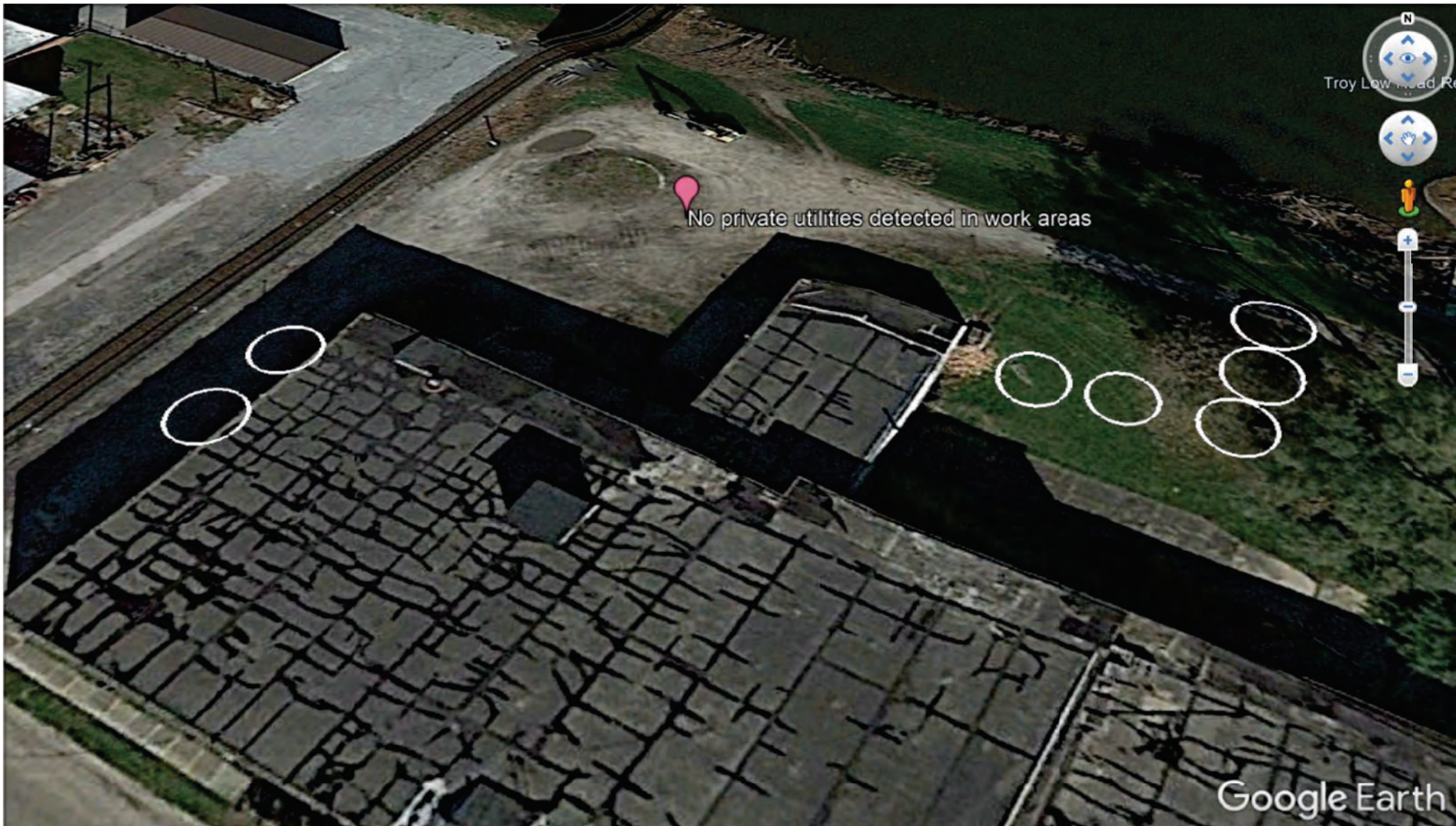












**** SKETCH NOT TO SCALE ****

GROUND ELECTRIC

GROUND WATER

GROUND GAS

GROUND OIL

GROUND CABLE

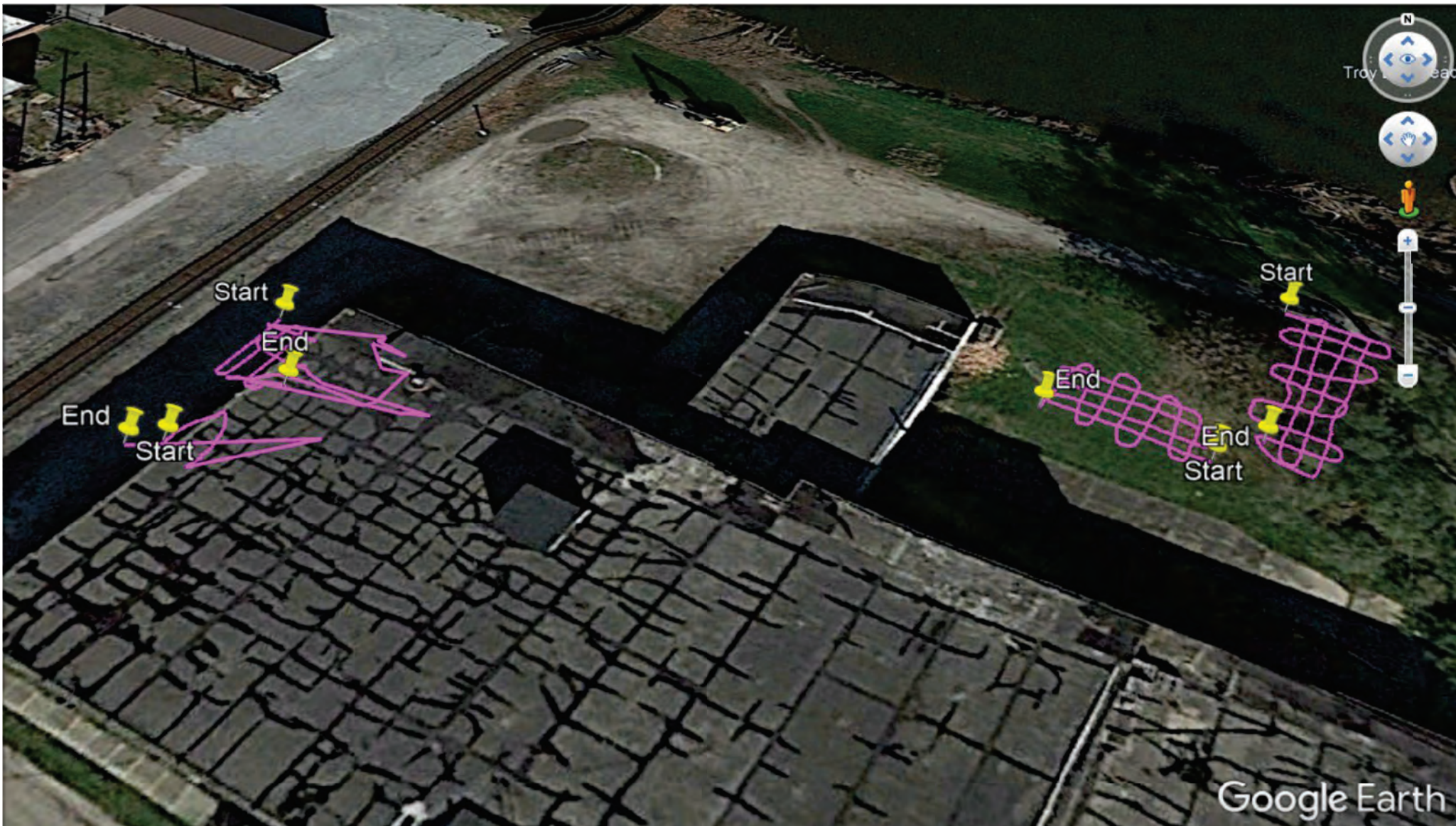
GROUND PIPES

GROUND TRENCHING

MPL@MasonPrivateLocating.com

888-316-3933 | Centuries Of Experience

WO:	10634	Date:	4/13/22	Tech:	Richard Plachko
Location:	Commercial Bldg			Client:	Tetra Tech
Address:	301 E Water St, Troy, OH 45373				



**** SKETCH NOT TO SCALE ****

GROUND ELECTRIC

GROUND WATER

GROUND GAS

GROUND OIL

GROUND STEAM

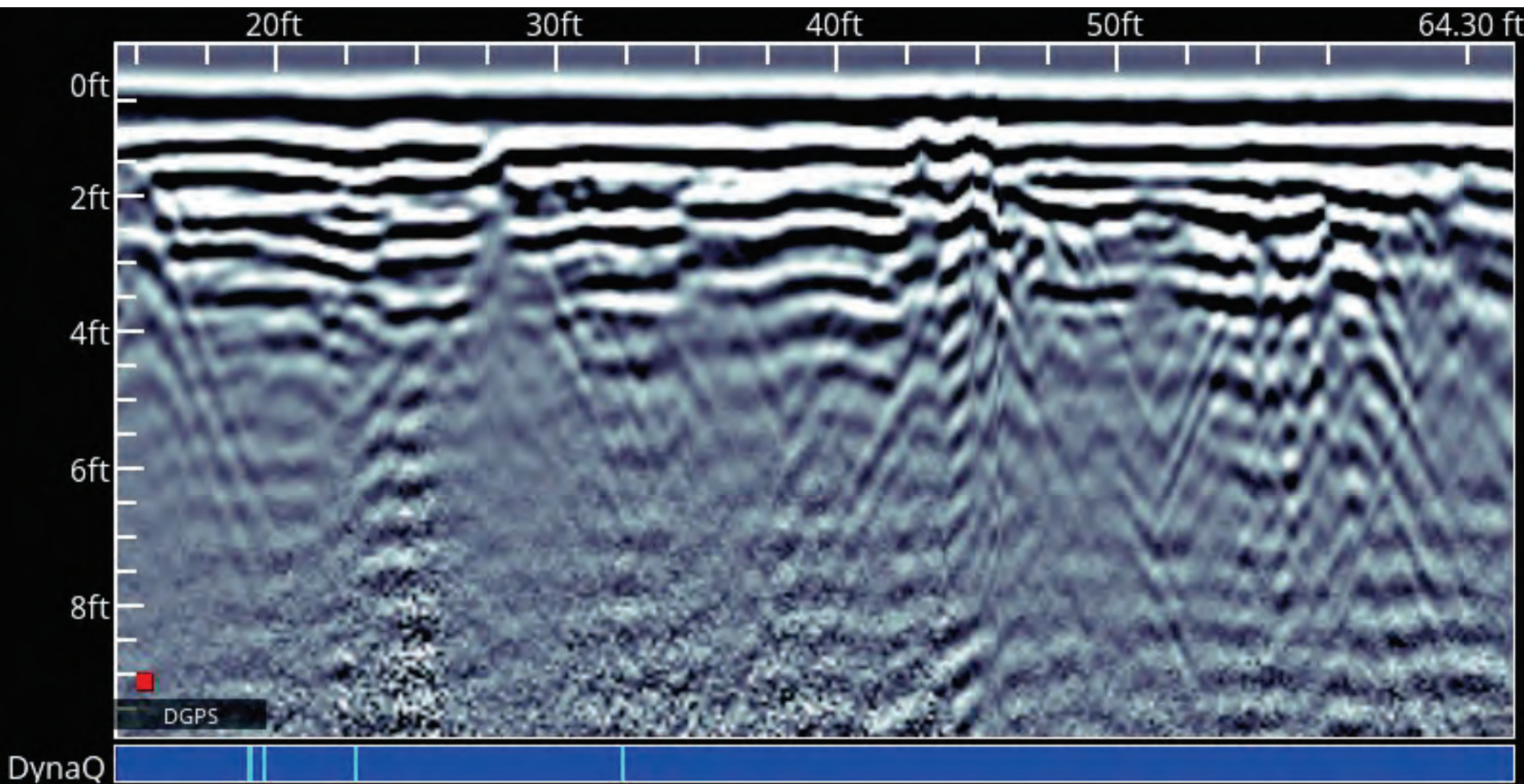
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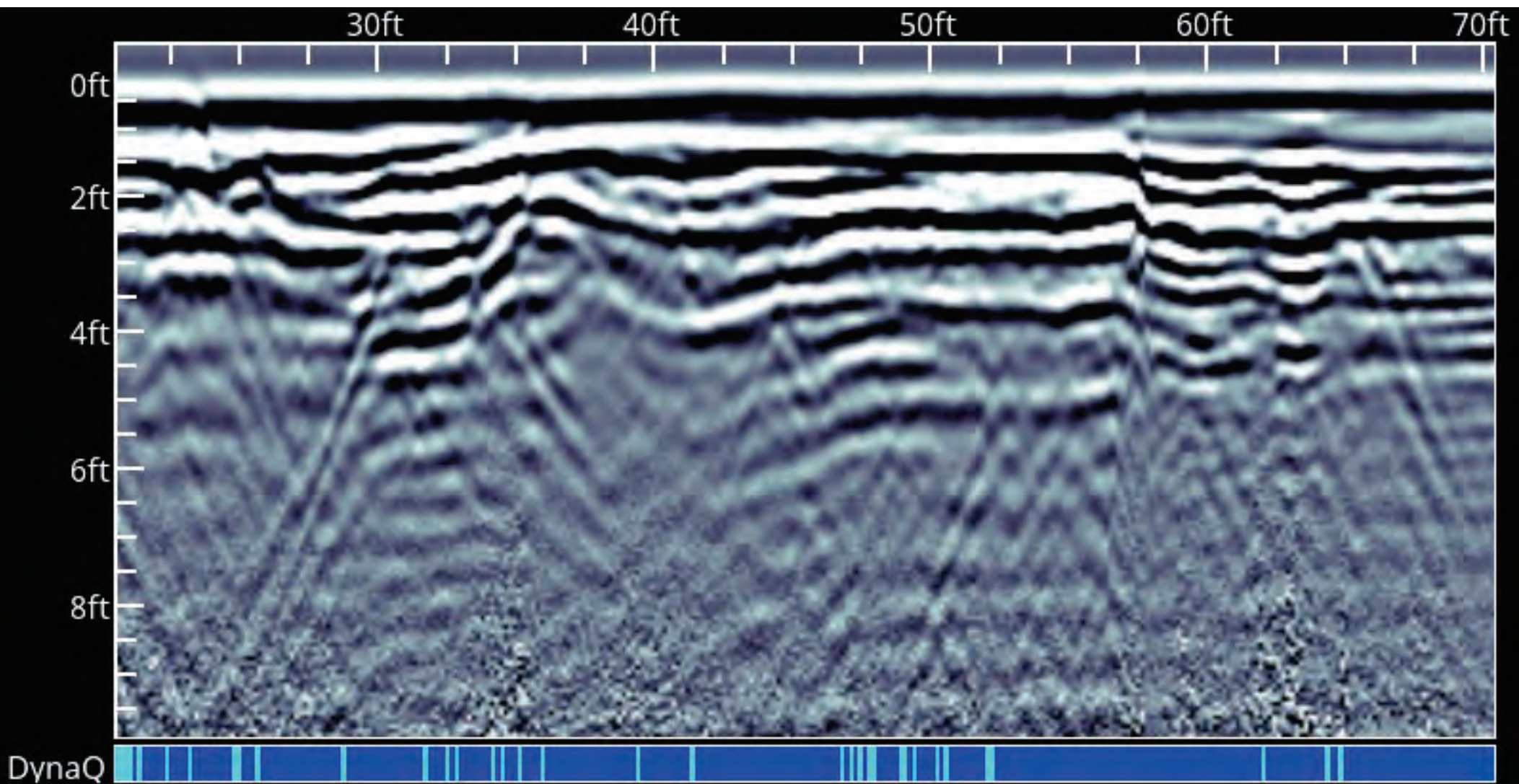
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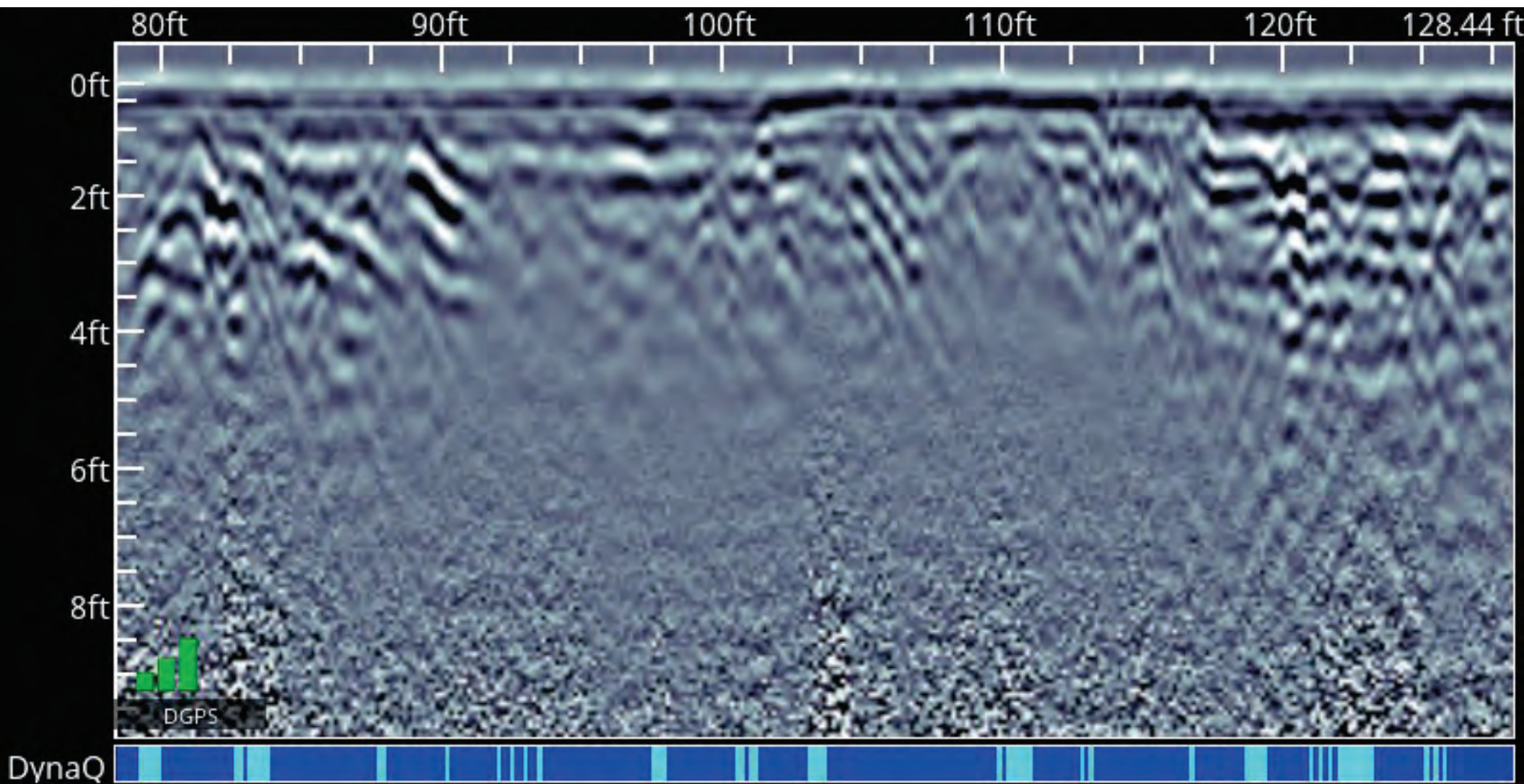
MPL@MasonPrivateLocating.com

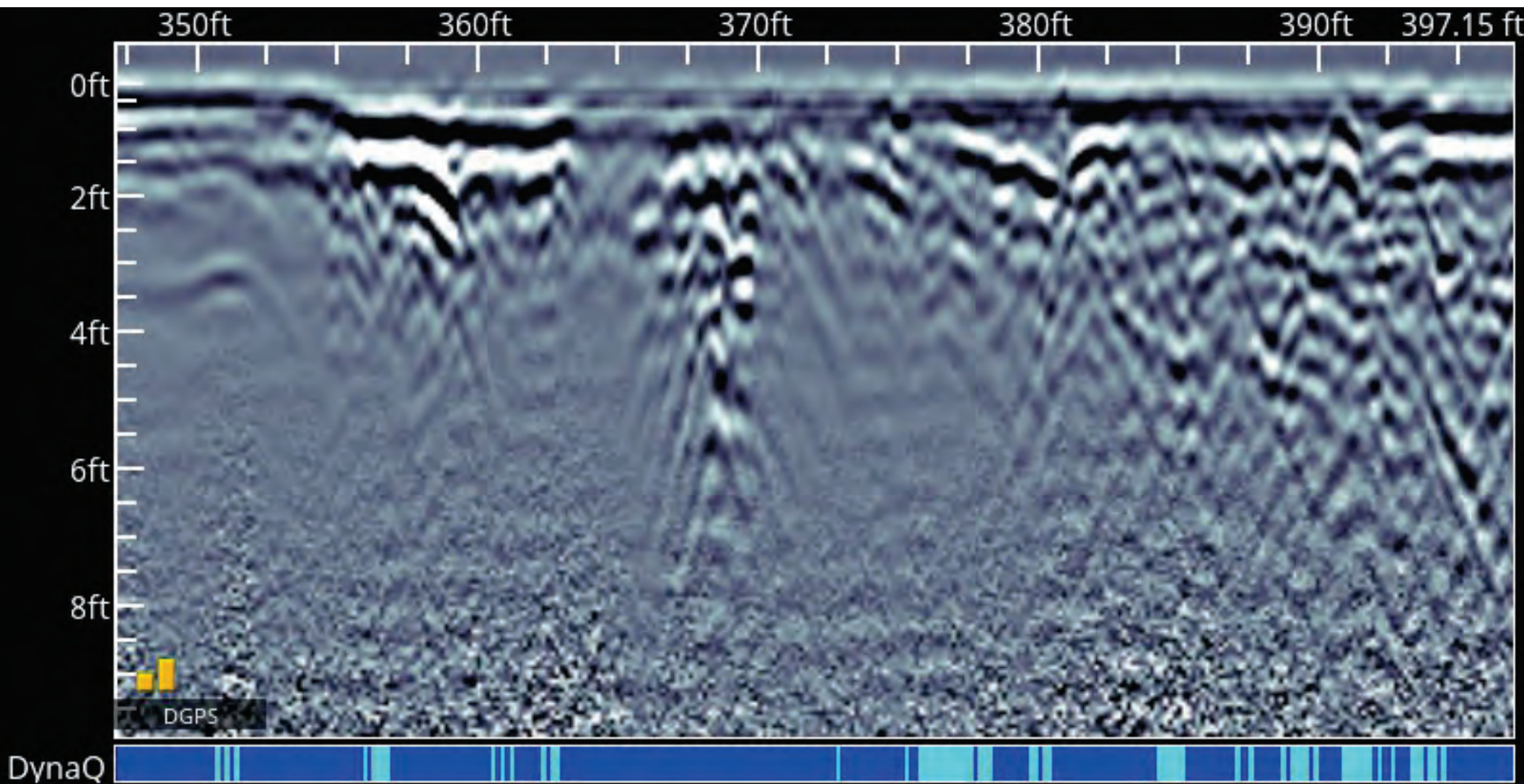
888-316-3933 | Centuries Of Experience

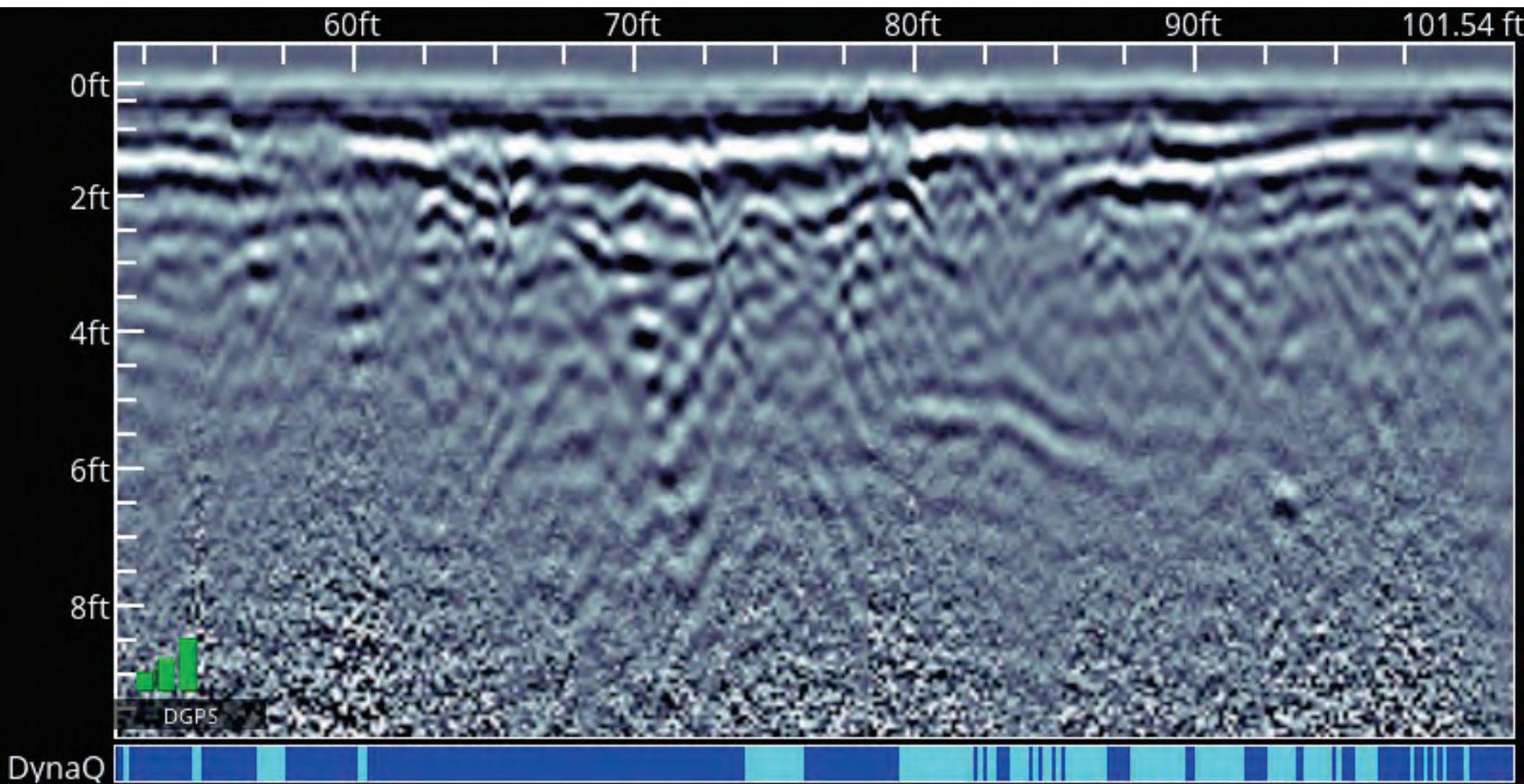
WO:	10634	Date:	4/13/22	Tech:	Richard Plachko
Location:	Commercial Bldg			Client:	Tetra Tech
Address:	301 E Water St, Troy, OH 45373				

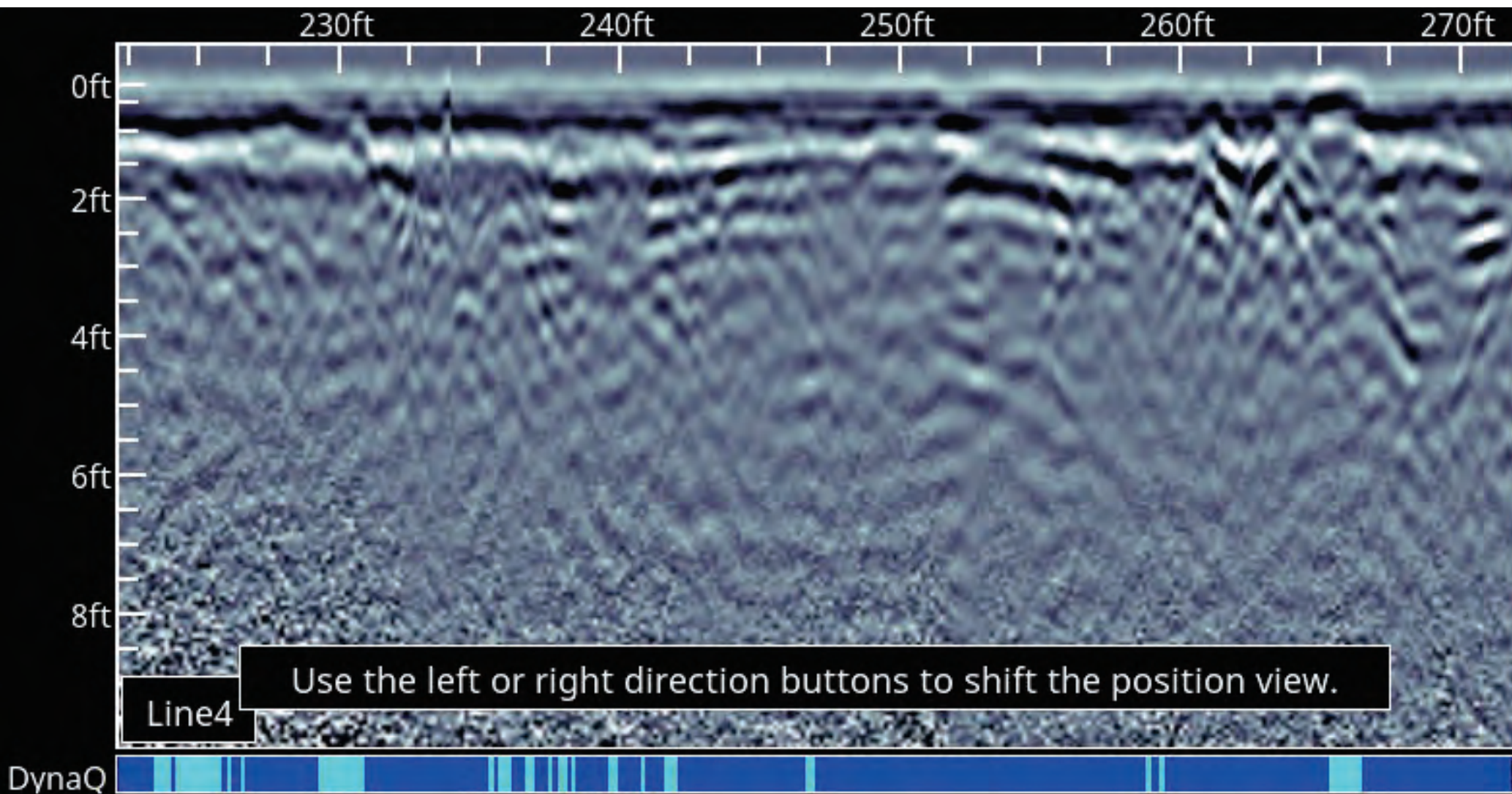












APPENDIX B

GEOPHYSICAL SURVEY REPORT

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO



Geophysical Survey

East Troy, Ohio



**Prepared for
Mr. Ray Mastrolonardo, PG
Tetra Tech Inc.
Hydrogeologist,
Project Manager
1 S. Wacker Drive, Suite
3700 Chicago, IL 60606**

By

Terence M. Hamill PhD

**Nov 26, 2021
GeoSearches Inc.
200 Industrial Pkway, Ste 6B
Chagrin Falls, Ohio 44022
Tel: 440.893.064**



November 26, 2021

Mr. Ray Mastrolonardo, P.G.
Tetra Tech Inc.
Project Manager
1 S. Wacker Drive, Suite 3700
Chicago, IL 60606

SUBJECT: Geophysical Investigation Survey
East Troy, Ohio.

Ray,

GeoSearches, Inc has completed the Geophysical survey, November 23, 2021 at the designated site north of East Clay and Water Streets in East Troy Ohio.

This Full Report presents the results regarding the targeted survey, determining if subsurface anomalies exist that may interfere with the future excavation of the entire site.

It has been a pleasure working with you on this project and if you have further questions, please do contact Geosearches Inc.

Best regard's,

A handwritten signature in blue ink, which appears to read "Terence M. Hamill".

Terence M. Hamill

President / Principal Geophysicist
GeoSearches, Inc

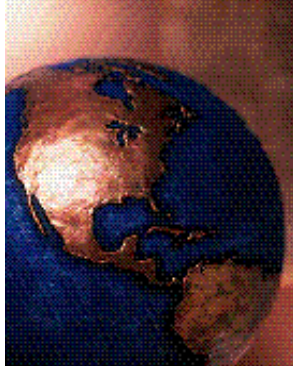


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Part Two: Processing	Page 7
Part Three: Interpretation and data quality	Page 8

Section Two: Discussion, Interpretation

Part One: Discussion	Page 10
Part Two: Interpretation	Page 10

Section Three: Results

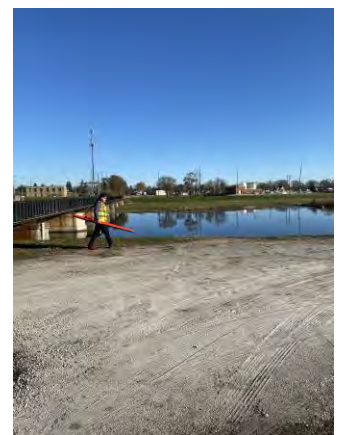
Data Samples	Page 11
Results	Page 17

Conclusion	Page 19
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Section One

SITE PROJECT AND DESCRIPTION



Introduction:

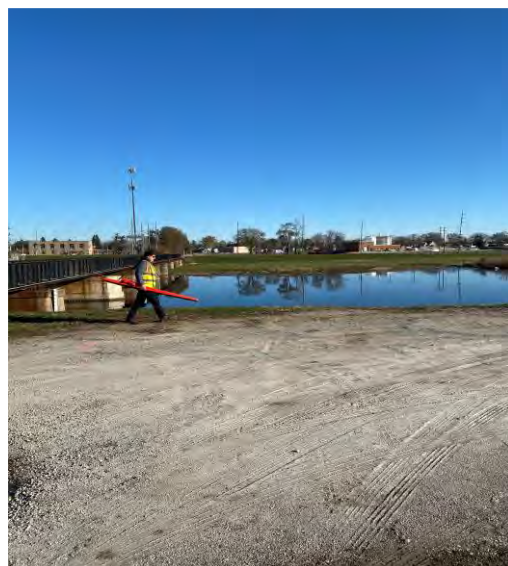
GeoSearches, Inc. has been retained by Tetra Tech Inc to conduct a Geophysical survey north of Clay Street and Water Street in East Troy, Ohio.

The objective was to identify and delineate subsurface features which may interfere with future excavation at the site

The non-intrusive, subsurface investigation was conducted using Ground Penetrating Radar (GPR) and Electromagnetics.

GPR detects subsurface structures by transmitting radio frequency waves into the ground and monitoring the strength and time delay of the reflection. The returning signal can then be evaluated to locate subsurface anomalies. Anomalies can be caused by void spaces, differences in soil/bedrock texture, differences in soil/bedrock moisture content, differences in the sediment compaction, and the presence of subsurface structures such as pipelines.

The GEM Electromagnetic instrument measures apparent electrical conductivities at multiple user-selected frequencies and magnetic susceptibility at the lowest selected frequency.



Part One: Method

A series of Electromagnetic and Ground Penetrating Radar (GPR) data lines were acquired at the site. The depth of penetration ranged from 0-ft to 20-ft

Before the fieldwork begins, historical data and detailed diagrams were reviewed to provide background information on the site.

A total of 2 data grids, consisting of 12 data lines were collected at 5ft intervals running West to East.

Observation points were established along each line. Moving the GPR equipment along the grid lines completed the survey.

The records are quality controlled and reviewed in the field before processing.

The equipment used was a GEM Multi-Frequency Electromagnetic instrument and a Noggin 250 MHz GPR system.

All the data were acquired using the common-offset reflection profiling method.

We completed a series of single line tests using the antennae to optimize acquisition parameters and used these results to design the survey.

Part Two: Processing

GPR data: apply filters and gains to make anomalies of interest more visible; plot data with uniform scales; compare model curves with data plots and, time slice data.

We processed the data to improve image quality using SPIVIEW TOOLS, and WIN EKKO software from Sensors and Software, Inc.

The first step in processing is to input geometry information and edit headers. Next, a short (3-sample) temporal median trim filter is applied to each trace to attenuate noise spikes that contaminated some of the data. A residual median filter is then applied to attenuate the wow. (In Geophysical data, wow noises are inherent and nonlinear noises associated with the antenna characteristics. In the trace view of GPR data, this low frequency wow noise pushes the traces sideways forming "bow" shapes, especially in the beginning of the time window. De-wow is to filter out these low frequency noises)

Tests show that this filter successfully attenuates both the low and high frequency components of the wow, without adding precursors or other artifacts to the wavelet. Time zero determination and datuming is also performed.

The next step in the processing sequence is amplitude compensation. For each line, we determine the rectified-amplitude versus time fall-off of the data. The inverse of this curve is scaled by a multiplier (0.3) to form the gain function. The multiplier is used to reduce the gain function so that anomalously high amplitude values are not clipped after amplitude compensation.

The electromagnetic EM data were collected continuously and simultaneously in a north-south direction at 4 transmitting frequencies (3030, 7030, 10030, 15030 Hertz). After completion of the fieldwork, the EM data were downloaded to a PC. Magmapper and Excel software were used to reduce the EM data.

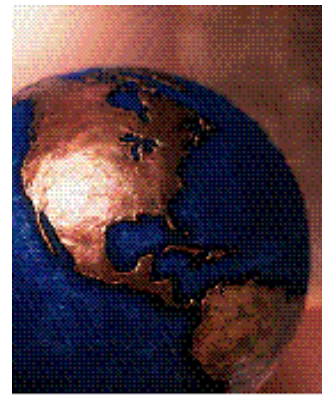
Part Three: Interpretation and data quality

After completion of the data processing, each GPR reflection image was evaluated to:

- (1) Evaluate the Electromagnetic and GPR penetration depth and resolution of the data collected to compare reflection character of the two, perpendicular line orientations; and
- (2) Interpret Electromagnetic and GPR reflections and image patterns as bounding surfaces and architectural elements in profile.



Electromagnetics and Ground Penetrating Radar equipment on site



Section Two

DISCUSSION and INTERPRETATION



Part One: Discussion

The Geophysical survey included:

- The survey consisted of 1 data area, 22,000 sq. ft. in total, with broken concrete covering, grass, and broken asphalt.
- The data collection area was 95% accessible.



Part Two: Interpretation

With the collected data and final processing, the goal was to establish where inconsistencies exist within the data coverage to establish the areas of concern.



Section Three

RESULTS

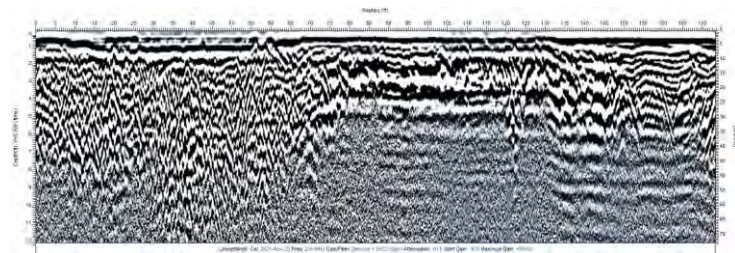


FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5



Results

The object of the Geophysical survey was to identify and delineate subsurface features which may interfere with future excavation at the site

As you can see in **Figure 2**, the processed data presents the information as a time verses velocity model, which means how long each pulse of electromagnetics takes to penetrate the subsurface and return to the surface.

The geophysical representation is by color standard which in this case the blue being areas where the data, after processing represents low frequency reflection returns and the yellow, red, and brown representing areas of higher frequency reflection returns from beneath the surface.

The GPR antennae utilized for the project consisted of a 250 MHz radar device.

The GEM Frequency spectrum ranged from 3030 to 15030 Hertz

The study area comprised of 2 data sections.

The data was collected within each section with 5 feet intervals between the lines.

Data Grid Results

Grid 1

The data grid was 120 feet wide by 180 feet in length which covered the designated area of concrete, asphalt, and grass.

The processed GPR and EM data did show areas that are representative of anomalies beneath the surface from depths of 1 foot to 8-foot **Figure's 2 - 5**

The area had areas of fast reflective material suggesting buried metallic objects and utilities running to the North and East.

These have been annotated as unknown lines.

Please reference kmz file and PDF file with this report for the compiled results.

.

Conclusion

The Geophysical survey produced good quality data, and the processed data and interpretation did identify areas of subsurface anomalies within the data collection area

General Qualifications

The GPR data presented herein are interpreted. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area is contained herein. No interpretation of subsurface conditions can be made for areas not surveyed.

APPENDIX C

SOIL BORING LOGS

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO




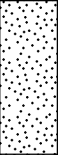



Tetra Tech Inc.

BORING NUMBER ETCA-SB-A1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 833.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 10.00 ft / Elev 823.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY_NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	50	PID = 0.1				Fill: gravel and coarse sand, some clay and brick, dry.
					4.0	829.5
4-6	50	PID = 0.0	5	SP		(SP) Dark brown/black coarse sand, some silt, moist.
					8.0	825.5
8-10	50	PID = 0.1	10			Fill: gravel and brick, wet.
					10.0	823.5
				SP		(SP) Dark brown/black coarse sand, moist.
					12.0	821.5
12-14	50	PID = 0.0	15	CH		(CH) Clay, cohesive, moist.
					16.0	817.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-A2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 833 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 11.00 ft / Elev 822.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	80	PID = 0.1				Fill: gravel, some greyish brown silt, dry.
						2.0 831.0
				CL- ML		(CL-ML) Brown silty clay, some sand, moist.
						4.0 829.0
4-6	50	PID = 0.0	5			(CL) Dark brown clay, moist.
				CL		
						8.0 825.0
8-10	50	PID = 0.1	10			(CL) Dark brown clay with some discoloration (black), grades to gravel and silt, from light grey to dark brown, wet.
				CL		
						12.0 821.0
12-14	50	PID = 0.0				(CH) Dark brown clay, very stiff, moist.
				CH		
			15			
						16.0 817.0

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-A3

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 10.00 ft / Elev 822.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	50	PID = 0.0				Fill and gravel. 830.5
						(SM) Silty sand, some clay, dark brown, moist.
4-6	50	PID = 0.0	5	SM		
						8.0 824.5
8-10	50	PID = 0.2	10	SM		(SM) Silty sand, some clay, dark brown, wet.
						10.0 822.5
				CL-ML		(CL-ML) Clayey silt, brown, moist.
						12.0 820.5
12-14	50	PID = 0.2		SP		(SP) Coarse sand with trace gravel/silt and clay.
			15			
						16.0 816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-A4

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0-2	50	PID = 0.6	0			Fill: dark brown gravel and silt, some potential slag.	831.5
				SP- SC		(SP-SC) Sand with trace clay, moist	830.5
				CL- ML		(CL-ML) Brown silty clay, moist.	
4-6	50	PID = 0.4	5			(SP) Dark brown coarse sand, trace silt, some gravel, moist.	828.5
				SP			
8-10	50	PID = 0.3	10			(SP) Coarse sand, some silt and gravel and sandstone, moist.	824.5
				SP			
12-14	50	PID = 0.3	15				
			16.0				816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-A5

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\PEASTTROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	50	PID = 0.3	0			Fill: gravel grades to dark brown coarse sand, some silt, potential slag, moist.
4-6	60	PID = 0.2	5			
				SP-SM		6.0 826.5 (SP-SM) Silty sand with gravel grades to sandstone.
8-10	50	PID = 0.0	10			8.0 824.5 (SP-SM) Brown coarse silty sand, some gravel, moist.
12-14	50	PID = 0.0		SP-SM		
			15			
						16.0 816.5 Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-B1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\PIEASTTROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	40	PID = 0.1	0			0.5 Fill: gravel, dry.
						(SP) Dark brown silty sand, some gravel, moist.
4-6	30	PID = 0.0	5			
				SP		
8-10	30	PID = 0.4	10			
						12.0
12-14	60	PID = 0.1				(CH) Brown clay, cohesive, stiff.
			15	CH		
						16.0

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-B2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	50	PID = 0.1				0.5 Fill: gravel, dry. (SP-SM) Dark brown silty sand, some gravel and trace clay, moist.	832.0
4-6	50	PID = 0.1	5	SP-SM			
8-10	50	PID = 0.3	10				822.5
						10.0	
						11.0 Fill: gravel, yellowish brown, moist.	821.5
				CL		(CL) Brown clay, moist.	820.5
12-14	60	PID = 0.3				(CH) Brown clay, cohesive, stiff, moist.	
			15	CH			
						16.0	816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-B3

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\PIEASTTROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	50	PID = 0.3			XXXX	0.5 Fill: gravel, dry.	832.0
						(SP-SM) Dark brown silty sand, some clay and potential slag, moist.	
4-6	50	PID = 0.3	5	SP-SM			
8-10	50	PID = 0.1	10	SP-SM		8.0 (SP-SM) Dark brown silty sand, with potential slag (8-9 ft bgs), moist.	824.5
						10.0	822.5
				CL		(CL) Brown clay, moist.	
12-14	30	PID = 0.1				12.0	820.5
				SP		(SP) Brown coarse sand with gravel, moist.	
			15				
						16.0	816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-B4

PAGE 1 OF 1

CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	11/29/21	COMPLETED	11/29/21
GROUND ELEVATION	832.5 ft	HOLE SIZE	5 inches
DRILLING CONTRACTOR	Envirocore	GROUND WATER LEVELS:	
DRILLING METHOD	DPT	AT TIME OF DRILLING ---	
LOGGED BY	CMS	AT END OF DRILLING ---	
CHECKED BY		AFTER DRILLING ---	
NOTES			

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH. INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	50	PID = 1.5	0			Fill: some gravel, dry.
						2.0 830.5
						(SP-SM) Dark brown sandy silt, some gravel, moist.
4-6	50	PID = 0.5	5	SP-SM		
						6.0 826.5
						(SP-SM) Brown sandy silt/sandstone, moist.
8-10	60	PID = 0.5	10			
12-14	40	PID = 0.4	15	SP-SM		
						16.0 816.5

Bottom of borehole at 16.0 feet.







Tetra Tech Inc.

BORING NUMBER ETCA-SB-B5

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH. INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	60	PID = 0.3				Fill: some gravel. 830.5
				SP		(SP) Coarse sand, some silt and slag grades to brown clayey silt, moist. 828.5
4-6	60	PID = 0.1	5	SP-SM		(SP-SM) Silty sand, potential slag, grades to dark brown clay. 826.5
						(SP-SM) Light brown silty sand, some gravel, moist.
8-10	40	PID = 0.2	10	SP-SM		
12-14	40	PID = 0.2				
			15			
						816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-B6

PAGE 1 OF 1

CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	4/14/22	COMPLETED	4/14/22
GROUND ELEVATION	833.5 ft	HOLE SIZE	5 inches
DRILLING CONTRACTOR	Envirocore	GROUND WATER LEVELS:	
DRILLING METHOD	DPT	AT TIME OF DRILLING	---
LOGGED BY	CMS	CHECKED BY	---
NOTES		AFTER DRILLING	---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	60	PID = 0.9				Fill: dark brown/black gravel and coarse grained sand, dry.
						831.5
				SM		(SM) Black silty sand, with gravel and clay, wet.
						829.5
4-6	20	PID = 1.3	5	SC-SM		(SC-SM) Brown clayey sand with gravel, moist.
						825.5
8-10	60	PID = 0.6	10			(SM) Brown silty sand with gravel.
12-14	60	PID = 0.6		SM		
			15			
						817.5
						Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-B7

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 1/14/22**COMPLETED** 4/14/22**GROUND ELEVATION** 833.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	60	PID = 0.8				Fill: fine grained sand and silt with rocks/gravel. 831.5
				CL		(CL) Dark brown clay, wet, grades to brown silty sand, dry. 829.5
4-6	50	PID = 0.9	5	CL- ML		(CL-ML) Brown silty clay, moist. 827.5
						Fill: gravel. 825.5
8-10	50	PID = 0.5	10			(SM) Light brown silty sand and gravel.
				SM		
12-14	40	PID = 1.1	15			
	20					(GP) Coarse grained sand and gravel. 817.5
			20	GP		
						813.5

Bottom of borehole at 20.0 feet.



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BORING NUMBER ETCA-SB-C1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 833 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:10 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	50	PID = 0.3				1.0 Fill: gravel, dry.	832.0
						(SP-SM) Dark brown coarse silty sand, gravel and potential slag, moist.	
4-6	50	PID = 0.0	5	SP-SM			
						8.0	825.0
8-10	50	PID = 0.0	10	SP-SM		(SP-SM) Dark brown silty sand, some clay and potential slag, moist.	
						10.0	823.0
						(CL) Clay, brown with some orange spots, cohesive, soft, moist.	
12-14	50	PID = 0.0		CL			
			15				
						16.0	817.0

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-C2

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CLIENT <u>Environmental Protection Agency</u>	PROJECT NAME <u>East Troy Contaminated Aquifer</u>
PROJECT NUMBER <u>103Z6401001</u>	PROJECT LOCATION <u>Troy, Miami County, Ohio</u>
DATE STARTED <u>11/29/21</u> COMPLETED <u>11/29/21</u>	GROUND ELEVATION <u>832.5 ft</u> HOLE SIZE <u>5 inches</u>
DRILLING CONTRACTOR <u>Envirocore</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>DPT</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>CMS</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE\DRIVE - TETRA TECH, INC\DESKTOP\PIEASTTROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0-2	40	PID = 0.1	0			1.0 Topsoil: dark brown clayey organic soil.	831.5
						(GP-GM) Dark brown silty clay and gravel, moist.	
4-6	20	PID = 0.2	5	GP-GM			
8-10	20	PID = 0.4				9.0	823.5

Refusal at 9.0 feet.
Bottom of borehole at 9.0 feet.



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BORING NUMBER ETCA-SB-C3

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH. INC\DESKTOP\PIEASTTROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	40	PID = 1.2		SP-SM		(SP-SM) Dark brown silty sand, trace clay, some gravel, moist.
4-6	30	PID = 0.8	5			
			6.0			826.5
				CL		(CL) Brown clay, cohesive, soft, moist.
8-10	30	PID = 0.0	10			
			12.0			820.5
12-14	60	PID = 0.0		CH		(CH) Brown clay, stiff, moist.
			15			
			16.0			816.5

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-C4

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/29/21**COMPLETED** 11/29/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	40	PID = 0.6				Fill: gravel and crushed brick with dark brown sand.
						2.0 830.5
				CL		(CL) Brown clay, cohesive, soft, moist.
4-6	20	PID = 0.0	5			
						6.0 826.5
						Fill: gravel and brick, coarse sand, dry.
8-10	50	PID = 0.0				
			10			10.0 822.5
						(CL-ML) Light brown sandy silt, some gravel, dry.
12-14	40	PID = 0.0		CL-ML		
			15			
						16.0 816.5

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-C5

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CLIENT Environmental Protection Agency	PROJECT NAME East Troy Contaminated Aquifer
PROJECT NUMBER 103Z6401001	PROJECT LOCATION Troy, Miami County, Ohio
DATE STARTED 11/30/21 COMPLETED 11/30/21	GROUND ELEVATION 833 ft HOLE SIZE 5 inches
DRILLING CONTRACTOR Envirocore	GROUND WATER LEVELS:
DRILLING METHOD DPT	AT TIME OF DRILLING ---
LOGGED BY CMS CHECKED BY	AT END OF DRILLING ---
NOTES	AFTER DRILLING ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE\DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	50	PID = 0.0	0	SP-SM		(SP-SM) Brown to yellowish brown sandy silt, some gravel, trace clay, dry.
4-6	50	PID = 0.0	5			
8-10	50	PID = 0.0	10			
12-14	50	PID = 0.0	15			
			16.0			

Bottom of borehole at 16.0 feet.

817.0



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BORING NUMBER ETCA-SB-D1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 833 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 21.00 ft / Elev 812.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH. INC\DESKTOP\EA\TROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	30	PID = 0.1	0			(SP) Dark brown sand, trace silt and clay, some gravel, moist.
4-6	30	PID = 0.4	5	SP		
8-10	30	PID = 49	10			
12-14	50	PID = 76	12.0	CH		(CH) Dark brown to black clay, stiff, moist. Gasoline odor. 821.0
			15	CH		
	70		16.0	CH		(CH) Brown to greyish brown clay, cohesive, soft, moist. 817.0
			20	SP		(SP) Sandy gravel. 813.0
	80		24.0			809.0

Bottom of borehole at 24.0 feet.



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BORING NUMBER ETCA-SB-D2

PAGE 1 OF 1

CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	11/30/21	COMPLETED	11/30/21
GROUND ELEVATION	832.5 ft	HOLE SIZE	5 inches
DRILLING CONTRACTOR	Envirocore	GROUND WATER LEVELS:	
DRILLING METHOD	DPT	AT TIME OF DRILLING ---	
LOGGED BY	CMS	AT END OF DRILLING ---	
CHECKED BY		AFTER DRILLING ---	
NOTES			

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	40	PID = 0.6	0	SP-SM		(SP-SM) Dark brown sand with trace silt and clay, some gravel, moist.
					4.0	828.5
4-6	60	PID = 0.6	5	CH		(CH) Clay, very stiff, moist.
					7.0	825.5
8-10	100	PID = 1.0	10	SP		(SP) Black and with fines (potential slag), moist.
					9.0	823.5
12-14	75	PID = 0.6	15	CH		(CH) Brown clay, stiff, moist.
					16.0	816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-D3

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 832 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 18.50 ft / Elev 813.5 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	60	PID = 2.7				Dark brown sand, trace silt and clay, some gravel, moist. Stained black at 2 ft bgs.	829.5
				SP- SM		(SP-SM) Brown silty sand, some clay and gravel, moist.	827.5
4-6	60	PID = 6.0	5	SP		(SP) Dark brown sand with gravel and fines (potential slag), moist.	825.5
						(CL) Clay, cohesive, soft, moist.	
8-10	75	PID = 1.0	10	CL			819.5
12-14	100	PID = 0.6	15	CH		(CH) Brown Clay, stiff, moist.	815.5
	100			CL		(CL) Light brown clay, cohesive, soft, moist.	813.0
			20	SP- SM		(SP-SM) Light greyish brown coarse silty sand with gravel, wet.	811.5

Bottom of borehole at 20.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-D4

PAGE 1 OF 1

CLIENT Environmental Protection Agency **PROJECT NAME** East Troy Contaminated Aquifer
PROJECT NUMBER 103Z6401001 **PROJECT LOCATION** Troy, Miami County, Ohio
DATE STARTED 11/30/21 **COMPLETED** 11/30/21 **GROUND ELEVATION** 831.5 ft **HOLE SIZE** 5 inches
DRILLING CONTRACTOR Envirocore **GROUND WATER LEVELS:**
DRILLING METHOD DPT **AT TIME OF DRILLING** ---
LOGGED BY CMS **CHECKED BY** ---
NOTES --- **AFTER DRILLING** ---

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	50	PID = 2.2		SM		(SM) Sand with trace silt and clay, some gravel with fill material (crushed bricks).
						827.5
4-6	50	PID = 1.2	5	CL-ML		(CL-ML) Dark brown clayey silt, cohesive, soft, wet.
						823.5
8-10	50	PID = 0.7	10	CL		(CL) Clay, cohesive, soft, moist.
						819.5
12-14	50	PID = 0.6		SM		(SM) Sand with trace silt and clay, some gravel, moist.
			15			815.5
						16.0

Bottom of borehole at 16.0 feet.

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ



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BORING NUMBER ETCA-SB-D5

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CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	11/30/21	COMPLETED	11/30/21
DRILLING CONTRACTOR	Envirocore	GROUND ELEVATION	832 ft
DRILLING METHOD	DPT	HOLE SIZE	5 inches
LOGGED BY	CMS	CHECKED BY	
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	---
		AT END OF DRILLING	---
		AFTER DRILLING	---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	60	PID = 1.6		SM		(SM) Dark brown sand with trace silt, some gravel, some fill (crushed brick), moist.
					2.0	830.0
				SP-SC		(SP-SC) Dark brown clayey silty sand, some fines (potential slag), wet.
4-6	10	PID = 0.4	5			
					6.0	826.0
				SP-SM		(SP-SM) Dark brown coarse grained silty sand, wet.
					8.0	824.0
8-10	50	PID = 0.6	10			(SM) Sand with trace silt, some gravel, moist.
				SM		
12-14	50	PID = 0.6				
			15			
					16.0	816.0

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-E1

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 12.50 ft / Elev 820.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	30	PID = 0.6	0			(SM) Dark brown sand, trace silt and clay, some gravel and fill material, moist.
				SM		
4-6	30	PID = 0.6	5			
				CL		
						6.0 826.5
						7.0 (CL) Brown clay, stiff, moist. 825.5
8-10	30	PID = 0.4	10	SM		(SM) Sand, trace silt and clay, some gravel and fill material (crushed bricks), wet.
						12.0 820.5
12-14	70	PID = 1.5		CL		(CL) Dark grey clayey silt, wet.
			15			
						16.0 816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-E2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 9.50 ft / Elev 823.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	40	PID = 1.5				1.0 Fill: gravel and wood (railroad ties).	831.5
				SP		(SP) Dark brown sand with some gravel, moist.	
						3.0	829.5
				CH		4.0 (CH) Brown clay, very stiff, moist.	828.5
4-6	25	PID = 1.5	5			(CL-ML) Brown silty clay, moist.	
				CL-ML			
						8.0	824.5
8-10	25	PID = 0.4	10			(CL-ML) Dark greyish brown silty clay, some gravel grades to fill material, some sand, wet (9.5')	
				CL-ML			
						12.0	820.5
12-14	30	PID = 0.1				(SP) Fine grained reddish brown sand, wet, grades to fill and gravel, wet.	
			15	SP			
						16.0	816.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-E3

PAGE 1 OF 1

CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	11/30/21	COMPLETED	11/30/21
DRILLING CONTRACTOR	Envirocore	GROUND ELEVATION	831.5 ft
DRILLING METHOD	DPT	HOLE SIZE	5 inches
LOGGED BY	CMS	CHECKED BY	
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	---
		AT END OF DRILLING	---
		AFTER DRILLING	---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	40	PID = 0.4	0			Fill: dark brown silty clay and some sandy/gravel layers, moist.
						827.5
4-6	40	PID = 0.6	5	CL-ML		(CL-ML) Brown silty clay, soft, moist.
						823.5
8-10	80	PID = 0.7	10	CH		(CH) Brown clay, soft to stiff, moist.
12-14	80	PID = 0.8	15			
						815.5
			16.0			

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-E4

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 830.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 17.50 ft / Elev 813.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	20	PID = 0.5	0	SP		(SP) Brown to dark brown sand, trace silt/clay, some gravel, moist.
4-6	30	PID = 0.7	5	CL- ML		(CL-ML) Brown clayey silt, moist.
8-10	70	PID = 0.3	10	CH		(CH) Brown clay, cohesive, soft to stiff, moist.
12-14	100	PID = 0.3	15	CH		(CH) Reddish brown clay, stiff, moist.
	30		20	SP		(SP) Brown gravelly sand, wet.

Bottom of borehole at 20.0 feet.







Tetra Tech Inc.

BORING NUMBER ETCA-SB-E5

PAGE 1 OF 1

CLIENT Environmental Protection Agency	PROJECT NAME East Troy Contaminated Aquifer
PROJECT NUMBER 103Z6401001	PROJECT LOCATION Troy, Miami County, Ohio
DATE STARTED 11/30/21	COMPLETED 11/30/21
GROUND ELEVATION 830.5 ft	HOLE SIZE 5 inches
DRILLING CONTRACTOR Envirocore	GROUND WATER LEVELS:
DRILLING METHOD DPT	AT TIME OF DRILLING ---
LOGGED BY CMS	AT END OF DRILLING ---
CHECKED BY	AFTER DRILLING ---
NOTES	

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\PEASTTROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	50	PID = 1.7		CL-ML		(CL-ML) Fill: Silty clay, with some gravel crushed bricks, moist. 828.5
4-6	30	PID = 1.2	5	SP		(SP) Black sand, some gravel and fines (potential slag), wet. 822.5
8-10	50	PID = 0.8	10	SP		(SP) Sand and gravel, wet. 820.5
12-14	20	PID = 1.2		SP		(SP) Sand and gravel, moist to dry. 814.5
			15			
			16.0			

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-F1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 832 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	40	PID = 0.1	0	SP		(SP) Dark brown sand, trace silt/clay, some gravel, moist.
4-6	20	PID = 0.1	5	CH		(CH) Brown clay, stiff, some gravel, moist.
8-10	40	PID = 0.5	10	CH		(CH) Brown clay, stiff, moist.
12-14	40	PID = 0.4	15	CH		(CH) Brown clay, soft, moist to wet at bottom.
			16.0			Bottom of borehole at 16.0 feet.

828.0

824.0

820.0

816.0



Tetra Tech Inc.

BORING NUMBER ETCA-SB-F2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 831.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\PEASTTROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	50	PID = 0.3	0	SP		(SP) Sand with trace silt/clay some gravel, dry.
					3.0	828.5
4-6	50	PID = 0.6	5	CL		(CL) Brown clay, soft, moist.
8-10	50	PID = 0.5	10			
	20	PID = 0.6			11.0	820.5
			15			
					16.0	815.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-G1

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 832 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0-2	70	PID = 0.6	0	SP		(SP) Dark brown sand, trace silt/clay, some gravel, moist.
					2.0	830.0
4-6	70	PID = 0.2	5	CH		(CH) Dark brown clay, very stiff, moist. Some fill debris (crushed bricks) at 7 ft bgs.
8-10	30	PID = 0.4	10			
12-14	75	PID = 0.4	15			
			16.0			816.0

Bottom of borehole at 16.0 feet.



PAGE 1 OF 1

AFTER DRILLING ---

Bottom of borehole at 20.0 feet.



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BORING NUMBER ETCA-SB-G3

PAGE 1 OF 1

CLIENT Environmental Protection Agency	PROJECT NAME East Troy Contaminated Aquifer
PROJECT NUMBER 103Z6401001	PROJECT LOCATION Troy, Miami County, Ohio
DATE STARTED 4/14/22	COMPLETED 4/14/22
GROUND ELEVATION 826 ft	HOLE SIZE 5 inches
DRILLING CONTRACTOR Envirocore	GROUND WATER LEVELS:
DRILLING METHOD DPT	▽ AT TIME OF DRILLING 13.00 ft / Elev 813.00 ft
LOGGED BY CMS	CHECKED BY
NOTES	AT END OF DRILLING ---
	AFTER DRILLING ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	30	PID = 1.1				Fill: dark brown clay with some silt, brick and coal, moist
						2.0 825.0
						Fill: brown sandy clay with brick and gravel, moist
						4.0 823.0
4-6	20	PID = 0.8	5			(CL-ML) Brown silty clay, stiff to soft, moist
8-10	40	PID = 0.8	10	CL-ML		
						12.0 815.0
12-14	30	PID = --				(GP) Sand and gravel, wet
			15	GP		
						16.0 811.0

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-GT1

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 12/1/21**COMPLETED** 12/1/21**GROUND ELEVATION** 832.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** Direct-push & HSA▽ **AT TIME OF DRILLING** 20.00 ft / Elev 812.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	30	PID = NA	0			
6-8	30		5	SM		(SM) Dark brown sand, trace silt/clay, some gravel, fines (potential slag), moist.
	50		10			8.0 824.5 (CL) Dark brown clay, stiff, moist.
12-14	100		15	CL		
	60		18.0			814.5
	50		20	SW		(SW) Light brown gravelly sand, wet.
			24.0			808.5

Bottom of borehole at 24.0 feet.



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BORING NUMBER ETCA-SB-GT2

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 12/1/21**COMPLETED** 12/1/21**GROUND ELEVATION** 831 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** Direct-push & HSA▽ **AT TIME OF DRILLING** 17.00 ft / Elev 814.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

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SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	50	PID = NA	0			
				SP		(SP) Dark brown sand and gravel, some fill material (crushed bricks), some clay spots, moist.
					4.0	827.0
6-8	30		5	CH		(CH) Dark brown clay, stiff, moist.
					6.0	825.0
						Fill: brick and gravel.
					8.0	823.0
	30		10			Fill: gravel and some pockets of dark brown clay (9-11 ft bgs)
					11.0	820.0
12-20	40					(SP) Light brown sand and gravel, moist to wet at 17 ft bgs.
			15	SP		
	40					
			20		20.0	811.0

Bottom of borehole at 20.0 feet.



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BORING NUMBER ETCA-SB-GT2R

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 12/1/21**COMPLETED** 12/1/21**GROUND ELEVATION** 831.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** Direct-push & HSA▽ **AT TIME OF DRILLING** 17.00 ft / Elev 814.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY_NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	50	PID = NA	0			Fill: dark brown sandy silt with trace clay, fines (potential slag) and crushed bricks, moist.
	50		5			826.5
	50			GP- GC		(GP-GC) Dark brown clay with gravel, moist.
	50		8			823.5
8-12	50		10	CH		(CH) Brown clay, cohesive, soft, moist.
	50		14			817.5
12-16	50		15	SP- SM		(SP-SM) Brown silty sand with gravel, moist to wet.
	50		20			811.5

Bottom of borehole at 20.0 feet.



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BORING NUMBER ETCA-SB-GT3

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CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	12/1/21	COMPLETED	12/1/21
DRILLING CONTRACTOR	Envirocore	GROUND ELEVATION	832.5 ft
DRILLING METHOD	Direct-push & HSA	HOLE SIZE	5 inches
LOGGED BY	CMS	CHECKED BY	
NOTES			
		GROUND WATER LEVELS:	
		▽ AT TIME OF DRILLING	15.00 ft / Elev 817.50 ft
		AT END OF DRILLING	---
		AFTER DRILLING	---

SAMPLE INTERVAL	RECOVERY %	PID (ppb)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1-3	50	PID = NA	0			
				SC		(SC) Sand, trace silt/clay, some gravel and fill (crushed bricks, fines - potential slag)/ Grades to clay at 3 feet bgs, dark brown, moist.
6-8	50		5			4.0 828.5
				CL		(CL) Dark brown silty clay, moist.
	50		10			
						12.0 820.5
	50		15			Fill: crushed bricks and gravel, wet at 15 ft bgs.
						16.0 816.5

Bottom of borehole at 16.0 feet.





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BORING NUMBER ETCA-SB-H1

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 831.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT**AT TIME OF DRILLING** ---**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	30	PID = 0.3		SP		0.5 Topsoil: dark brown organic soils, moist. (SP) Dark brown sand, trace silt/clay, gravel, moist.	831.0
						3.0	828.5
4-6	30	PID = 0.1	5	CH		(CH) Brown clay, stiff, moist.	
8-10	50	PID = 0.1	10				
12-14	60	PID = 0.1					
			15				
						16.0	815.5

Bottom of borehole at 16.0 feet.



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BORING NUMBER ETCA-SB-H2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 11/30/21**COMPLETED** 11/30/21**GROUND ELEVATION** 829 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 16.00 ft / Elev 813.00 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	20	PID = 0.0				0.5 Topsoil: dark brown organic soils, moist. Fill: crushed bricks.	828.5
4-6	20	PID = 0.3	5	SP		(SP) Dark brown sand, trace silt/clay, gravel, dry.	825.0
8-10	60	PID = 0.1	10			(CL) Brown clay, moist.	820.0
12-14	70	PID = 0.1	15	CL			
	60		16.0	SP		(SP) Light brown sand and gravel, wet.	813.0
			20				809.0

Bottom of borehole at 20.0 feet.



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BORING NUMBER ETCA-SB-H3

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 4/14/22**COMPLETED** 4/14/22**GROUND ELEVATION** 827.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 14.00 ft / Elev 813.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	20	PID = 1.1				Topsoil: dark brown sandy clay, moist.
						2.0 825.5
						Fill: gravel and crushed bricks.
						4.5 823.0
4-6	40	PID = 0.8	5			(CL-ML) Brown silty clay, soft; some gravel, moist.
				CL- ML		8.0 819.5
8-10	70	PID = 1.2	10			(CL-ML) Dark brown silty clay, stiff.
				CL- ML		11.0 816.5
						(CL-ML) Brown silty clay, soft.
12-14	50	PID = 0.9				13.0 814.5
						(GW) Gravelly sand, some silt, wet at 14 ft bgs.
			15	GW		
						16.0 811.5

Bottom of borehole at 16.0 feet.



Tetra Tech Inc.

BORING NUMBER ETCA-SB-I1

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CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 4/14/22**COMPLETED** 4/14/22**GROUND ELEVATION** 831.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 18.00 ft / Elev 813.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSA\AZARIONE\DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY - NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	50	PID = 1.3				0.5 Topsoil: dark brown organic soils.	831.0
						Fill: black coarse grained sand, gravel and brick, moist.	
						2.5	829.0
						(CL-ML) Dark brown silty clay, stiff.	
4-6	50	PID = 1.2	5				
				CL-ML			
8-10	40	PID = 0.6	10				
12-14	80	PID = 0.6				13.0	818.5
						(SC-SM) Brown clayey silty sand, soft.	
			15	SC-SM			
	50					16.0	815.5
						(GP) Gravelly sand with silt, wet at 18 ft bgs.	
				GP			
			20			20.0	811.5

Bottom of borehole at 20.0 feet.







Tetra Tech Inc.

BORING NUMBER ETCA-SB-I2

PAGE 1 OF 1

CLIENT Environmental Protection Agency**PROJECT NAME** East Troy Contaminated Aquifer**PROJECT NUMBER** 103Z6401001**PROJECT LOCATION** Troy, Miami County, Ohio**DATE STARTED** 4/14/22**COMPLETED** 4/14/22**GROUND ELEVATION** 828.5 ft**HOLE SIZE** 5 inches**DRILLING CONTRACTOR** Envirocore**GROUND WATER LEVELS:****DRILLING METHOD** DPT▽ **AT TIME OF DRILLING** 14.00 ft / Elev 814.50 ft**LOGGED BY** CMS**CHECKED BY****AT END OF DRILLING** ---**NOTES****AFTER DRILLING** ---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA\STROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
			0			
0-2	50	PID = 1.2		CL-ML		(CL-ML) Dark brown to brown silty clay, stiff, moist
						826.5
						2.0
						Fill: crushed bricks
						4.0
4-6	40	PID = 1.1	5	GP		(GP) Dark brown coarse gravelly sand, wet
						821.5
						7.0
						8.0
						Fill: concrete, dry
8-10	50	PID = 1.3	10	CL-ML		(CL-ML) Dark brown silty clay, stiff. Some fill, moist
						820.5
						12.0
12-14	50	PID = 1.1		GP		(GP) Brown gravelly silty sand, wet at 14 ft bgs.
			15			816.5
						16.0

Bottom of borehole at 16.0 feet.







Tetra Tech Inc.

BORING NUMBER ETCA-SB-I3

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CLIENT	Environmental Protection Agency	PROJECT NAME	East Troy Contaminated Aquifer
PROJECT NUMBER	103Z6401001	PROJECT LOCATION	Troy, Miami County, Ohio
DATE STARTED	4/14/22	COMPLETED	4/14/22
GROUND ELEVATION	826.5 ft	HOLE SIZE	5 inches
DRILLING CONTRACTOR	Envirocore	GROUND WATER LEVELS:	
DRILLING METHOD	DPT	AT TIME OF DRILLING	13.00 ft / Elev 813.50 ft
LOGGED BY	CMS	CHECKED BY	
NOTES		AT END OF DRILLING	---
		AFTER DRILLING	---

ENVIRONMENTAL BH COPY V3 - GINT STD US LAB.GDT - 5/18/22 17:11 - C:\USERS\CARLOS.MENORSALAZAR\ONE DRIVE - TETRA TECH, INC\DESKTOP\EA5TROY NOV-DEC21.GPJ

SAMPLE INTERVAL	RECOVERY %	PID (ppm)	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
			0				
0-2	30	PID = 0.9		SC-SM		0.5 Topsoil: brown organic soils 1.0 Fill: gravel (SC-SM) Brown silty clayey sand, some gravel, moist	826.0 825.5
4-6	50	PID = 0.9	5	CL-ML		(CL-ML) Dark brown silty clay, stiff, moist	822.5
8-10	80	PID = 0.9	10	CL-ML		(CL-ML) Brown silty clay, soft, moist	816.5
12-14	80	PID = 0.8	15	GW		(GW) Gravelly silt and sand, wet at 13 ft bgs.	814.5
			16.0				810.5

Bottom of borehole at 16.0 feet.

APPENDIX D

FIELD LOGBOOK

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO

The logo is a yellow rectangular label with a black border. At the top, it says "MADE IN TACOMA" in a small, black, sans-serif font. Below that, in a slightly larger black sans-serif font, is "— SINCE 1916 —". The center of the label features the brand name "Rite in the Rain" in a large, elegant, black cursive script. At the bottom, in a black sans-serif font, is "— DEFYING MOTHER NATURE —".

MADE IN TACOMA
— SINCE 1916 —
Rite in the Rain[®]
— DEFYING MOTHER NATURE —

Project _____



CONTENTS

2 EAST TROY CONTAMINATED AQUIFER (ETCA) 11/29/21

0730 TETRA TECH PERSONNEL CARLOS MENDOZA + KIRSTEN MYLES ARRIVED ON SITE @ 301 EAST WATER ST., TROY, OH TO THE BACK/REAR AT THIS PROPERTY

WEATHER: 22/41°F. CLOUDY. WIND 5-10 mph. HUMID. 81%.

SITE ACTIVITIES: SITE RECONNOISSANCE, DRILLING (DPT) WITH GEOPROBE, SOIL SAMPLING FOR VOCs, AND SAMPLE MANAGEMENT. ——— CMS

0745 TT PERSONNEL PREPARED SAMPLING KITS.

0830 ENVIROCORE (DRILLING SUB) ON SITE:

RAY C. + TOM B. ——— CMS

0845 HEALTH AND SAFETY MEETING CONDUCTED BY TT CARLOS M. SAFETY TOPICS DISCUSSED: GOLD STRESS AND LIVE RAILROAD TRACKS NEAR BOREHOLES TO DRILL ——— CMS
PPE WILL CONSIST OF LEVEL D, INCL. HARD HAT, EDR PLUGS. ——— CMS

0915 ENVIROTECH BEGINS DRILLING AT SB-A1 DOWN TO 16'. SAMPLES COLLECTED: P10 (ppm)

ETCA-SBA1-0002-112921 @ 0918 0.1

ETCA-SBA1-0406-112921 @ 0925 0.0

ETCA-SBA1-0810-112921 @ 0928 0.1

ETCA-SBA1-1214-112921 @ 0930 0.0

0955 ENVIROTECH BEGINS DRILLING AT SBA2 DOWN TO 16'

SAMPLES COLLECTED: P10

ETCA-SBA2-0002-112921 @ 0957 0.0

EAST TROY CONTAMINATED AQUIFER (ETCA) 11/29/21 P.3

ETCA-SBA2-0406-112921 @ 1000 0.1

ETCA-SBA2-0810-112921 @ 1005 0.3

ETCA-SBA2-1214-112921 @ 1007 0.0

1010 ENVIROTECH BEGINS DRILLING AT SBA3 DOWN TO 16'

SAMPLES COLLECTED: P10 (ppm)

ETCA-SBA3-0002-112921 @ 1020 0.0

ETCA-SBA3-0406-112921 @ 1025 0.0

ETCA-SBA3-0810-112921 @ 1030 0.2

ETCA-SBA3-1214-112921 @ 1035 0.2

1040 ENVIROTECH BEGINS DRILLING AT SBA4 DOWN TO 16'

SAMPLES COLLECTED: P10 (ppm)

ETCA-SBA4-0002-112921 @ 1046 0.6

ETCA-SBA4-0406-112921 @ 1050 0.4

ETCA-SBA4-0810-112921 @ 1100 0.3

ETCA-SBA4-1214-112921 @ 1105 0.3

ETCA-SBA4-0406-D-112921 @ 10.55 (DUPLICATE)

1110 ENVIROTECH BEGINS DRILLING AT SBA5 DOWN TO 16'

SAMPLES COLLECTED: P10 (ppm)

ETCA-SBA5-0002-112921 @ 1115 0.3

ETCA-SBA5-0406-112921 @ 1120 (MS/MND) 0.2

ETCA-SBA5-0810-112921 @ 1125 0.0

ETCA-SBA5-1214-112921 @ 1130 0.0

ETCA-SBA5-0002-D-112921 @ 11.17 (DUPLICATE)

1145 ENVIROTECH BEGINS DRILLING AT SBA5 DOWN TO 16'. ——— CMS

ETCA SITE

11/29/21

SAMPLES COLLECTED:

PID (ppm)

ETCA-SBB5-0002-112921 @ 1150 0.3

ETCA-SBB5-0406-112921 @ 1155 0.1

ETCA-SBB5-0810-112921 @ 1200 0.2

ETCA-SBB5-1214-112921 @ 1205 0.2

1215 BREAK FOR LUNCH. CMS

12.35 ENVIROCORE BEGINS DRILLING AT SBB4 DOWN TO 16'

SAMPLES COLLECTED:

PID (ppm)

ETCA-SBB4-0002-112921 @ 1245 0.5

ETCA-SBB4-0406-112921 @ 1250 0.5

ETCA-SBB4-0810-112921 @ 1255 0.4

ETCA-SBB4-1214-112921 @ 1300 0.4

1300 ENVIROCORE BEGINS DRILLING AT SBB3 DOWN TO 16'

SAMPLES COLLECTED:

PID (ppm)

ETCA-SBB3-0002-112921 @ 1310 0.3

ETCA-SBB3-0002-D-112921 @ 1312 0.1

ETCA-SBB3-0406-112921 @ 1315 0.3

ETCA-SBB3-0810-112921 @ 1320 0.1

ETCA-SBB3-0810-D-112921 @ 1322 0.1

ETCA-SBB3-1214-112921 @ 1325 0.1

Note: NO RECOVERY ~ 8-12 ft, DPT - offset 2-3 ft from initial SBB3 and advanced to obtain core. CMS

1330 ENVIROCORE BEGINS DRILLING AT SBB2 DOWN TO 16'

CMS

ETCA SITE

11/29/21

SAMPLES COLLECTED

PID (ppm)

ETCA-SBB2-0002-112921 @ 1340 0.1

ETCA-SBB2-0406-112921 @ 1345 0.1

ETCA-SBB2-0810-112921 @ 1350 0.3

ETCA-SBB2-1214-112921 @ 1355 0.2

1400 ENVIROCORE BEGINS DRILLING AT SBB1 DOWN TO 16'

ETCA-SBB1-0002-112921 @ 1405 0.1

ETCA-SBB1-0406-112921 @ 1410 0.2

ETCA-SBB1-0810-112921 @ 1425 0.4

ETCA-SBB1-1214-112921 @ 1430 0.4

ETCA-SBB1-0002-D-112921 @ 1407 (DUPLICATE)

Note: Refusal ~ 8 ft bgs. Geoprobe moved over 2-3 ft to offset (twice) for better recovery. CMS

1445 ENVIROCORE BEGINS DRILLING AT SBC1 DOWN TO 16'

SAMPLES COLLECTED

PID (ppm)

ETCA-SBC1-0002-112921 @ 1450 0.3

ETCA-SBC1-0406-112921 @ 1455 0.2

ETCA-SBC1-0810-112921 @ 1455 0.2

ETCA-SBC1-1214-112921 @ 1500 0.2

Note: NO RECOVERY ~ 4-8 ft bgs. Geoprobe moved over 2-3 ft to offset (once) for better recovery. CMS

1500 ENVIROCORE BEGINS DRILLING AT SBC2 DOWN TO 16' BUT HIT REFUSAL (15') AT 8 ft bgs

11/29/21

and again Refusal (1535) at 9 ft bgs. — CMS

SAMPLES COLLECTED

PID (ppm)

ETCA-SBC2 - 0002-112921 @ 1510

0.1

ETCA-SBC2 - 0406-112921 @ 1525

0.2

ETCA-SBC2 - 0809 - 112921 @ 1535

0.4

NO SAMPLE COLLECTED AT TARGET INTERVAL
OF 12-14 ft bgs — CMS1540 ENVIROGRE BEGINS DRILLING AT SBC3 DOWN TO 16'

SAMPLES COLLECTED

PID (ppm)

ETCA-SBC3 - 0002-112921 @ 1545

1.2

ETCA-SBC3 - 0002-5 - 112921 @ 1545 (DUPLICATE)

ETCA-SBC3 - 0406-112921 @ 1550

0.8

ETCA-SBC3 - 0810 - 112921 @ 1555

0.0

ETCA-SBC3 - 1214-112921 @ 1600 (MS/MSD)

0.0

1600 ENVIROGRE BEGINS DRILLING AT SBC4 DOWN TO 16'

SAMPLES COLLECTED

PID (ppm)

ETCA-SBC4 - 0002-112921 @ 1605

0.6

ETCA-SBC4 - 0406-112921 @ 1610

0.0

ETCA-SBC4 - 0810 - 112921 @ 1615

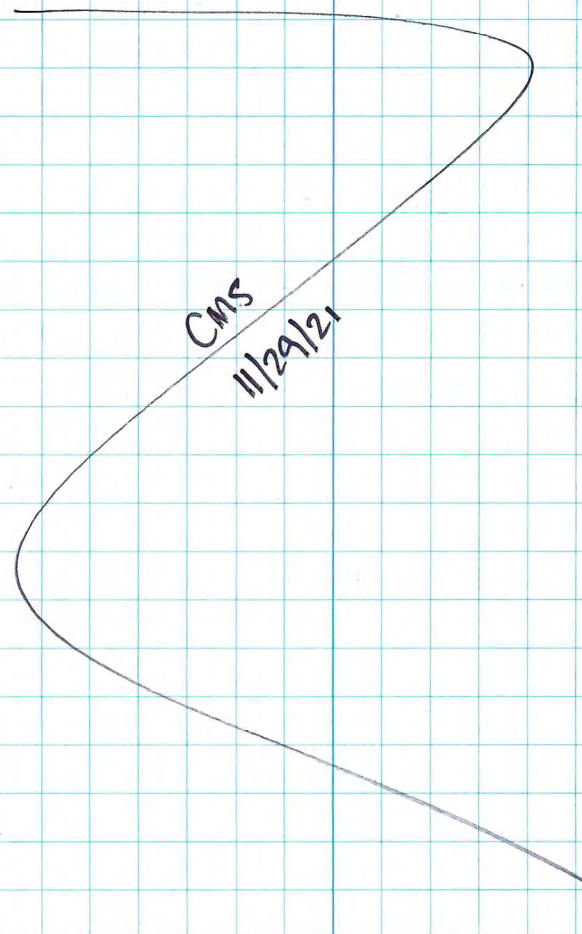
0.0

ETCA-SBC4 - 1214-112921 @ 1620

0.0

BACKNOTE: START PERSONNEL CALIBRATED AND AID
ZERO CAL (WHEN APPROPRIATE) AT 0930 AM
UNIT:

11/29/21

1630 DRILLING SOIL CUTTINGS GENERATED WERE
CONTAINED IN ONE 55-GAL STEEL DRUM
TEMPORARILY PLACED ON SITE BETWEEN
POINTS B2 AND C2. — CMS1645 END OF SITE ACTIVITIES FOR THE DAY — CMS

11/30/21

0830 TETRA TECH PERSONNEL CARLOS MENDOZA, VICKY
 FARMER AND KIRSTEN MYLES ON SITE; ENVIROCORE
 (DRILLING SUB) RAY GED AND THOMAS BECK ON SITE
WEATHER: 33/53. Fair/SUNNY. WIND 10-15 MPH WSW
HUMIDITY: 65% CMS

SITE ACTIVITIES: DRILLING WITH GEOPRAGE (DP-), SOIL
 SAMPLING FOR VOCs AND SAMPLE MANAGEMENT - CMS

0845 HIS MEETING. TOPIC DISCUSSED: SLIP, TRIPS, FALLS
 AND GLO FITNESS CMS

0900 ENVIROCORE BEGINS DRILLING AT SB C5 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB C5 - 0002 - 113021 @ 0910 0.0

ETCA-SB C5 - 0406 - 113021 @ 0915 0.0

ETCA-SB C5 - 0810 - 113021 @ 0920 0.0

ETCA-SB C5 - 1214 - 113021 @ 0925 0.0

0930 ENVIROCORE BEGINS DRILLING AT SB D5 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB D5 - 0002 - 113021 @ 0930 1.6

ETCA-SB D5 - 0406 - 113021 @ 0935 0.4

ETCA-SB D5 - 0810 - 113021 @ 0940 0.6

ETCA-SB D5 - 1214 - 113021 @ 0945 0.6

0947 ENVIROCORE BEGINS DRILLING AT SB D4 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB D4 - 0002 - 113021 @ 0950 2.2

ETCA-SB D4 - 0002 - D-113021 @ 0952 (DUPLICATE)

11/30/21

ETCA-SB D4 - 0406 - 113021 @ 0955 1.2

ETCA-SB D4 - 0810 - 113021 @ 1000 0.7

ETCA-SB D4 - 1214 - 113021 @ 1005 0.6

1007 ENVIROCORE BEGINS DRILLING AT SB D3 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB D3 - 0002 - 113021 @ 1010 2.2

ETCA-SB D3 - 0406 - 113021 @ 1015 6.0

ETCA-SB D3 - 0810 - 113021 @ 1020 1.0

ETCA-SB D3 - 1214 - 113021 @ 1025 (MTHW) 0.6

WET SOIL ~ 18.5 ft by CMS

1029 ENVIROCORE BEGINS DRILLING AT SB D2 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB D2 - 0002 - 113021 @ 1030 0.6

ETCA-SB D2 - 0406 - 113021 @ 1035 0.6

ETCA-SB D2 - 0810 - 113021 @ 1040 1.0

ETCA-SB D2 - 1214 - 113021 @ 1045 0.6

1047 ENVIROCORE BEGINS DRILLING AT SB D1 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SB D1 - 0002 - 113021 @ 1050 0.1

ETCA-SB D1 - 0002 - D-113021 @ 1052 (DUPLICATE)

ETCA-SB D1 - 0406 - 113021 @ 1055 0.4

ETCA-SB D1 - 0810 - 113021 @ 1100 49.0

ETCA-SB D1 - 1214 - 113021 @ 1105 76.0

SANDY GRAVEL WET AT ~ 21 ft by CMS

11/30/21

1107 ENVIROCORE BEGINS DRILLING AT SBE1 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBE1-0002-113021 @ 1110 0.6

ETCA-SBE1-0406-113021 @ 1115 0.6

ETCA-SBE1-0810-113021 @ 1120 0.4

ETCA-SBE1-1214-113021 @ 1130 1.5

NOTE: REFUSAL AT 12 ft by. GYROBE offset ~

2-3 ft bys to advance w/ full recovery - cms

WET ~ 13 ft bys (CLAYEY SILT) — cms

1145 ENVIROCORE BEGINS DRILLING AT SBE2 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBE2-0002-113021 @ 1150 1.5

ETCA-SBE2-0406-113021 @ 1155 1.5

ETCA-SBE2-0810-113021 @ 1200 0.4

ETCA-SBE2-1214-113021 @ 1205 0.1

ETCA-SBE2-0002-D-113021 @ 1152 (DUPLICATE)

WET SOILS (gravelly sand) ~ 12 ft bys.

1215 BREAK FOR LUNCH — cms

1255 ENVIROCORE BEGINS DRILLING AT SBE3 DOWN TO 16'

ETCA-SBE3-0002-113021 @ 1300 0.4

ETCA-SBE3-0406-113021 @ 1305 0.6

ETCA-SBE3-0810-113021 @ 1310 0.2

ETCA-SBE3-1214-113021 @ 1315 0.8

1317 ENVIROCORE BEGINS DRILLING AT SBE4 DOWN TO 20' — cms

11/30/21

SAMPLES COLLECTED P10 (ppm)

ETCA-SBE4-0002-113021 @ 1320 0.5

ETCA-SBE4-0406-113021 @ 1325 0.2

ETCA-SBE4-0810-113021 @ 1330 0.3

ETCA-SBE4-0810-D-113021 @ 1332 (DUPLICATE)

ETCA-SBE4-1214-113021 @ 1330 0.3

W GYROBEY SAND, WET AT ~ 12.5 ft bys.

1335 ENVIROCORE BEGINS DRILLING AT SBE5 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBE5-0002-113021 @ 1335 1.2

ETCA-SBE5-0002-D-113021 @ 1337 (DUPLICATE)

ETCA-SBE5-0406-113021 @ 1340 1.2

ETCA-SBE5-0810-113021 @ 1345 0.8

ETCA-SBE5-1214-113021 @ 1350 1.2

1353 ENVIROCORE BEGINS DRILLING AT SBF2 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBF2-0002-113021 @ 1355 0.3

ETCA-SBF2-0406-113021 @ 1400 (M1110) 0.6

ETCA-SBF2-0810-113021 @ 1405 0.5

ETCA-SBF2-1214 → SAMPLE NOT

COLLECTED, ONLY CRUSHED BRICKS PRESENT.

1408 ENVIROCORE BEGINS DRILLING AT SBF3 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBF3-0002-113021 @ 1410 0.1

ETCA-SBF3-0406-113021 @ 1415 0.1

ETCA SITE

11/30/21

ETCA-SBF1-0810-113021@1420 0.5

ETCA-SBF1-1214-113021@1425 0.4

1428 ENVIRCORE BEGINS DRILLING AT SBF1 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBF1-0002-113021@1430 0.6

ETCA-SBF1-0406-113021@1435 0.2

ETCA-SBF1-0810-113021@1440 0.4

ETCA-SBF1-1214-113021@1445 0.4

ETCA-SBF1-1214-D-113021@1447 (DUPLICATE)

1449 ENVIRCORE BEGINS DRILLING AT SBF2 DOWN TO 20'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBF2-0002-113021@1450 0.0

ETCA-SBF2-0406-113021@1455 0.2

ETCA-SBF2-0810-113021@1500 0.1

ETCA-SBF2-1214-113021@1505 0.0

▽ Gravelly sand, wet ~ 17.0 ft bgr - CMS

1510 ENVIRCORE DRILLING AT SBH1 DOWN TO 16'

SAMPLES COLLECTED P10 (ppm)

ETCA-SBH1-0002-113021@1515 0.3

ETCA-SBH1-0002-D-113021@1517 (DUPLICATE)

ETCA-SBH1-0406-113021@1520 0.1

ETCA-SBH1-0810-113021@1525 0.1

ETCA-SBH1-1214-113021@1530 0.1

1532 ENVIRCORE DRILLING AT SBH2 DOWN TO 20'

SAMPLES COLLECTED P10 (ppm)

ETCA SITE

11/30/21 13

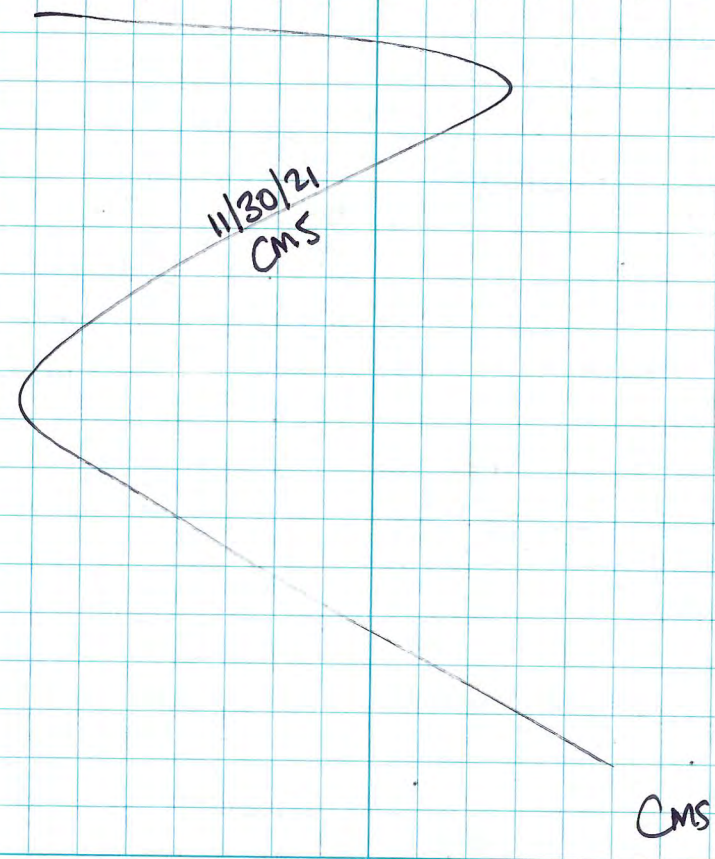
ETCA-SBH2-0002-113021@1535 0.0

ETCA-SBH2-0406-113021@1540 0.3

ETCA-SBH2-0810-113021@1545 0.1

ETCA-SBH2-1214-113021@1550 0.1

▽ Sand and gravel, wet ~ 16.5 ft bgr - CMS

1610 LEFT SITE AND CONTINUED W/ SAMPLE
MANAGEMENT ACTIVITIES OFF SITE AT HOTEL

12/1/21

0830 TT PERSONNEL ON SITE: CARLOS MENDO, NICKY
FRIMER + KIRSTEN MYLES. ENVIROCORE RAY GED
AND THOMAS BECK ON SITE ——— CMS

WEATHER: 31/49. LIGHT RAIN. WIND 10-15 mph SSE

SITE ACTIVITIES: SOIL SAMPLING FOR WASTE CHARACTERIZATION
ON 3 SOIL BORINGS (GT1, GT2 and GT3)
AND GEOTECHNICAL SAMPLE COLLECTION ON THOSE.
IDW - DRUM (WC) SAMPLING, GW-LEVELS AT
SITE WELLS, AND SOIL SAMPLE MANAGEMENT.

0845 HEALTH AND SAFETY MEETING ——— CMS

0900 TT PERSONNEL PREPARES SAMPLING KITS FOR SOIL
WASTE CHARACTERIZATION. ANALYTES INCLUDE: TCLP
VOCs, TCLP SVOCs, TCLP METALS + Hg, pH
(Conductivity), REACTIVE CYANIDE, REACTIVE
SULFIDE ——— CMS

0945 ENVIROCORE BEGINS DRILLING AT GT1 DOWN TO 24'

1) SAMPLES COLLECTED FOR WC:

(SANDY) → ETCA-WC1-0608-120121 @ 10.00 (ALL ANALYTES)

(CLAYEY) → ETCA-WC1-1214-120121 @ 10.15 (ALL ANALYTES)

INTERVAL	BLOW COUNTS	RECOVERY (SPLIT-SPoon)
1-2.5	3 2 2	2"
3.5-5	1 WOH*	0"
6-7.5	2 1 1	6"
8.5-10	2 4 7	12"
12-14	N/A (SHELBY TUBE)	22.5"
18.5-20	3 2 2	1"

NOTE
* (WEIGHT
OF HAMMER)

12/1/21

2 SATURATED SOILS ~ 20 ft bgs ——— CMS

2) SAMPLES COLLECTED FOR GEOTECH ANALYSIS
ETCA-GT1-0608-120121 @ 1000 5 GAL BUCKET (FULL)
ETCA-GT1-1214-120121 @ 1015 22.5" SHELBY TUBE

1100 ENVIROCORE BEGINS DRILLING AT GT2 DOWN TO 20'

1) SAMPLES COLLECTED INTERVAL (1ST attempt)

12-20 @ 1145 (SANDY/GRAVEL) but
Clayey interval not well defined at this
location. All samples discarded, lack volume

2 17 ft bgs on sand/gravel soils ——— CMS
HOWEVER, NOT ENOUGH RECOVERY ON SPLIT SPOONS
FOR SANDY INTERVAL EITHER ——— CMS

INTERVAL	BLOW COUNT	RECOVERY (SPLIT-SPoon)
1-2.5	2 WOH WOH	3"
3.5-5	1 WOH 1	4"
6-7.5	2 1 5	4"
8.5-10	1 1 1	3"
13.5-15	7 8 7	5"

SHELBY TUBE NOT COLLECTED (LOW REC.)

1245 BREAK FOR LUNCH ——— CMS

1345 ENVIROCORE BEGINS DRILLING AT NEW GT2

LOCATION, CLOSER TO D4. SAMPLES COLLECTED:

(CLAYEY) → ETCA-WC2-0812-120121 @ 1400 (VOCs)
TCLP

(SANDY) → ETCA-WC2-1216-120121 @ 1415 (VOCs)
TCLP

NO OTHER SAMPLE COLLECTED DUE TO LACK OF VOL.

12/01/21

1415 ENVIROCORE BEGINS DRILLING AT GT3 DOWN TO 16'

1) SAMPLES COLLECTED FOR W.C.:

(SANDY) → ETCA-WC3-0103-120121 (ALL ANALYSES) @ 1430

(CLAYEY) → ETCA-WC3-0608-120121 (ALL ANALYSES) @ 1415

2 CRUSHED BRICKS, GRAVEL, WET @ ~15 ft byr.

INTERVAL	BLOW COUNTS	RECOVERY (SPLIT SPOON)
1-2.5	3/3/2	9"
3.5-5	1/1/2	9"
8.5-10		
6-8	N/A SHELBYS TUBE	20"
8.5-10	WOH/WOH/WOH	1"
13.5-15	1/WOH/1	2"

2) SAMPLES COLLECTED FOR GEOTECH. ANAL.:

ETCA-GT3-0608-120121 @ 1425 (20" Shelby tube)

ETCA-GT3-0103-120121 @ 1430 (5 GAL BUCKET (1/2))

1515 ENVIROCORE BEGINS DRILLING AT NEW LOCATION FOR GT2 CLOSER TO D4 (3rd ATTEMPT)

1) SAMPLES COLLECTED FOR W.C.:

(CLAYEY) → ETCA-WC2R-0812-120121 @ 1530 FOR ALL OTHER ANALYSES BUT TCLP VOCs — CMS

(SANDY) → ETCA-WC2R-1216-120121 @ 1545 FOR ALL OTHER ANAL. BUT TCLP VOCs — CMS

2 Silty sand and gravel, wet ~12 ft byr

CMS

12/01/21

INTERVAL	BLOW COUNT	RECOVERY 2
1-2.5	3/1/1	9" (SPLIT SPOON)
3.5-5	1/WOH/1	5"
6-7.5	WOH/WOH/3	8"
8-10	N/A → SHELBYS TUBE	12"
13.5-15	2/3/4	5"
18.5-20.	6/11/9	24"

2) SAMPLES COLLECTED FOR GEOTECH ANAL.:

ETCA-GT2-0810-120121 @ 1530 (12" Shelby tube)

CMS

BACKNOTE: ADJUSTED FIELD PLAN [0930]

- 1 - Geoprobe w/ DPT at GT1-2-3 to obtain 4-foot core soil material and prioritize TCLP VOC Collector for W.C.
- 2 - At the same SB (GT1-2-3), advance the hollow stem auger and use the split-spoon for rest of analyses for W.C. Record Blow Counts. (every 6 inch for a total of 18 inch.)
- 3 - At the same SB, obtain bulk / grab samples of sandy interval & 5-gal bucket, and clayey interval w/ Shelby tubes, for Geotechnical Analyses: ASTM-D4737 Triaxial Compression Test for Cohesive Soils

Rite in the Rain

12/1/21

ASTM D 4318 Atterberg Limits

ASTM D 6913 Particle Size

ASTM 2216 Soil moisture

PROCTOR COMPACTION TEST CUP TRIAXIAL REMOLDING

BACKNOTE #2: GW LEVELS AT MWs ON SITE:MW 122^S: 18.98 ft bgs TOCMW 110^S: 12.47 ft bgs TOC

DEPA 13: 18.54 ft bgs TOC

1700 SAMPLE COLLECTED (GRAB) FROM

SOIL-IDW DRUM (W.C. ANALYSES)

ETCA-IDW-12/01/21 @ 1700 — CMS

1715 LEFT SITE, BACK AT HOTEL TO CONTINUE

SAMPLE MANAGEMENT ACTIVITIES

12/1/21
CMS

CMS

12/2/21

0930 TT PERSONNEL CAROL MENDO ONSITE

WEATHER: 40/59°F. PARTLY CLOUDY. WINDS

10-20 mph WSW. Humidity 75%. — CMS

SITE ACTIVITIES: COORDINATED WITH ENVIRONMENTAL

(JOEY) FOR DRUM PICK UP AND TRANSPORT

TO WWTP. ENVIRONMENTAL TO DIRECTLY COORD.

WITH KEN PARKS (PROXY WWTP).

AFFIXED LABEL "NON-HAZ" SOIL CUTTINGS

POI 11/29-12/01" ON THE 10W-SOIL DRUM.

1000 END OF SITE ACTIVITIES. — CMS

SAMPLE MANAGEMENT AND SHIPPING

VIA FEDEX AND LOCAL LAB (GEO TECH)

DRIVE TO DROP OFF SAMPLES — CMS

1200 REMOVED FROM SITE

CMS
12/2/21

CMS

ETCA SITE

4/13/22

1330 TEMOTECH PERSONNEL ARRIVED ON SITE FROM CHICAGO: CARLOS MENDO — CMS
SOW CONFIRM UTILITY LOCATE AND FLAG SOIL BORINGS WITH A GPS UNIT WITH PRE-LOADED COORDINATES — CMS
WEATHER: 66/41, RAINY. WINDS S 15 mph.
 DUE TO THE WEATHER, MASON UTILITY LOCATOR RICK L. MOVED THE APPOINTMENT TO EARLY MORNING (0830 ET) AND LOCATED AREAS OF INTEREST FOR DRILLING.

1400 CARLOS CALLED RICK TO CONFIRM A COUPLE OF FLAGGED POINTS THAT APPEAR TO BE 2-3 FEET OUTSIDE THE PAINTED AREAS CORRESPONDING TO CLEVEL OF UTILITIES. RICK CONFIRMED THAT TRANSECTS WERE ONE BLOCKED AND NO UTILITIES WERE SIGNALING SO IT WILL STILL BE SAFE FOR DRILLING. SEVEN (7) FLAGGED POINTS ON SITE:

• J 1, J 2, J 3, G 3, H 3, BG and B7

1430 CARLOS CALLED TO PM - RAY M. TO BREF. — CMS

1435 END OF SITE ACTIVITIES — CMS

CMS

4/13/22

CMS

ETCA SITE

4/14/22 21

0830 TEMOTECH PERSONNEL ON SITE: CARLOS MENDO AND JIM WESCOTT. ENVIROCORE: TRISTAN

WEATHER: 43/58. SUNNY. WINDS WSW 17-20 mph

0840 HS MEETING. TOPIC: TRAIN ACTIVITY / NOTE

0855 ENVIROCORE STARTS DRILLING AT SB-B7

SAMPLES COLLECTED: — PID (ppm)

ETCA-SBB2-0002-041422 @ 0903 0.8

ETCA-SBB2-0406-041422 @ 0912 0.9

ETCA-SBB2-0810-041422 @ 0922 0.5

ETCA-SBB2-1214-041422 @ 0936 1.1

0930 OFFSET 3 FT TOWARDS BG AS OBTAINED REFUSAL

AT 12 FEET. DRILLED DOWN TO 12-16 and

16-20 (WET AT 20 FEET) — CMS

0950 ENVIROCORE STARTS DRILLING AT SB-BG

SAMPLES COLLECTED — PID (ppm)

ETCA-SBBG-0002-041422 @ 1000 0.9

ETCA-SBBG-0406-041422 @ 1002 1.3

ETCA-SBBG-0810-041422 @ 1006 0.6

ETCA-SBBG-1214-041422 @ 1008 0.6

1020 ENVIROCORE STARTS DRILLING AT SB-G3

SAMPLES COLLECTED — CMS

ETCA-SBG3-0002-041422 @ 1032 1.1

ETCA-SBG3-0406-041422 @ 1040 0.8

* ETCA-SBG3-0406-P-041422 @ 1042 0.8

ETCA-SBG3-0810-041422 @ 1044 0.8

ETCA-SBG3-1214-041422 @ 1046 N/A (web)

Roll in the Rain

ETCA

4/14/22

1100 ENVIRO CORE STARTS AT SB-H3

SAMPLES COLLECTED

ETCA - SBH3 - 0002 - 041422 @ 1108	P.D (ppm)
ETCA - SBH3 - 0406 - 041422 @ 1110	1.1
ETCA - SBH3 - 0810 - 041422 @ 1112	0.8
ETCA - SBH3 - 1214 - 041422 @ 1114	1.2
	0.9

1128 ENVIRO CORE STARTS AT SB-I3

SAMPLES COLLECTED

ETCA - SBI3 - 0002 - 041422 @ 1138	P.D (ppm)
ETCA - SBI3 - 0406 - 041422 @ 1150	0.9
ETCA - SBI3 - 0810 - 041422 @ 1140 (MC/MKD)	0.9
ETCA - SBI3 - 1214 - 041422 @ 1142	0.8

1145 OFFSET JH NORTH TO COLLECT 04-06 AS
THE RECOVERY ON FIRST PRESENT LOCATION WAS
INSUFFICIENT. — MC — CMS

1205 ENVIRO CORE STARTS AT SB-I2

SAMPLES COLLECTED.

ETCA - SBI2 - 0002 - 041422 @ 1214	P.D (ppm)
* ETCA - SBI2 - 0002 - D - 041422 @ 1216	1.2
ETCA - SBI2 - 0406 - 041422 @ 1218	1.1
ETCA - SBI2 - 0810 - 041422 @ 1220	1.3
ETCA - SBI2 - 1214 - 041422 @ 1222	1.1

1240 ENVIRO CORE STARTS AT SB-I1

SAMPLES COLLECTED

ETCA - SBI1 - 0002 - 041422 @ 1246	P.D (ppm)
	1.3

ETCA

4/14/2022

** ETCA - SBI1 - 0406 - 041422 @ 1254	1.2
ETCA - SBI1 - 0810 - 041422 @ 1256	0.6
ETCA - SBI1 - 1214 - 041422 @ 1300	0.6
* ETCA - SBI1 - 1214 - D - 041422 @ 1302	0.6

1320 ENVIRO CORE COMPLETED BACKFILL
BOREHOLE WITH IDW LEFT AND ADDED
BENTONITE CHIPS — CMS

1545 COMPLETED SAMPLE MANAGEMENT, LEFT SITE

1630 PRINTED GUIN OF CUSTODY, KED COVER

1700 DROPPED 2 COVER W/ SAMPLES AT
FEDEX DAYTON - VANDALIA AIRPORT.

4/14/2022
JMS

CMS

APPENDIX E

DATA VALIDATION REPORT COVER LETTER

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO



June 9, 2022

Ms. Shari Kolak
Task Order Contract Officer Representative
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

**Subject: Data Validation Report
East Water Street Pre-Design Investigation
East Troy Contamination Aquifer Site
EPA Contract Number (No.): Exemption 6-PII
Task Order No.: Exemption 6-PII**

Dear Ms. Kolak:

Tetra Tech, Inc. (Tetra Tech) prepared the enclosed data validation report (DVR) for the East Troy Contaminated Aquifer (ETCA) Superfund site, in Troy, Miami County, Ohio, under the U.S. Environmental Protection Agency (EPA) CLIN2 Contract for Region 5, Contract No. Exemption 6-PII Task Order (TO) No. Exemption 6-PII. Under this TO, Tetra Tech is performing remedial design (RD) activities at the ETCA site in accordance with EPA's TO Request. This DVR pertains to soil samples collected during the East Water Street pre-design investigation conducted between November 29 and December 1, 2021, and on April 14, 2022.

During the November 29 through December 1, 2021 sampling event, seven soil samples were collected for reactive cyanide and reactive sulfide analysis by ALS Environmental. Five soil samples were collected for consolidated undrained triaxial compression test for cohesive soils, specific gravity, unified soil classification system of soils for engineering purposes, Atterberg limits, particle size, soil moisture, and proctor compaction test for CUPP triaxial remodeling by Bowser Morner, Inc. Nine soil samples were collected for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOC) and TCLP semi-volatile organic compounds analysis, seven soil samples were collected for TCLP metals analysis, and 167 soil samples (including one trip blank sample) were collected for VOC analysis by the Contract Laboratory Program (CLP).

On April 14, 2022, thirty-three additional soil samples plus one aqueous trip blank sample were collected for VOC analysis by CLP.

Tetra Tech conducted Stage 2A data validation for the laboratory data submitted by ALS Environmental, and Stage 2A data verification for the laboratory data submitted by Bowser Morner, Inc. Laboratory analytical data were evaluated in general accordance with the Tetra Tech *East Troy Contaminated Aquifer Site Quality Assurance Project Plan (QAPP)* and the EPA *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020). The Environmental Services Assistance Team contractor performed Stage 3 data validation for the laboratory data submitted by the CLP laboratory. Tetra Tech evaluated the field quality control samples for the soil sample events sent to CLP for analysis.

Rejection and qualification of some VOC soil sample results were required for the CLP laboratory data. The remaining sample results may be used as reported by the laboratories. Notably, no results for tetrachloroethene or trichloroethene – the two VOCs of concern – have been rejected.



If you have any questions regarding this submittal, please call me at (312) 201-7748.

Sincerely,

A handwritten signature in dark ink that reads 'R. Mastrolonardo'.

Ray Mastrolonardo, PG

Project Manager

Enclosure

cc: Lance Haman, EPA Task Order Contracting Officer
Natalie Topp, EPA Contract Specialist
Linda Martin, EPA Project Officer
Mindy Gould, Tetra Tech, Inc. Regional Coordinator
Bruce Welch, Tetra Tech Environmental Scientist

APPENDIX F

GEOTECHNICAL RESULTS

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO

APPENDIX G

IDW DOCUMENTATION

EAST WATER STREET PRE-DESIGN INVESTIGATION

DATA EVALUATION REPORT

EAST TROY CONTAMINATED AQUIFER SITE

TROY, MIAMI COUNTY, OHIO

10625

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number VSQG	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Waste Tracking Number 050422
5. Generator's Name and Mailing Address East Troy Site 1400 Dye Mill Rd Troy, OH 45373			Generator's Site Address (if different than mailing address) (312) 201-7748		
6. Transporter 1 Company Name Midwest Environmental Transport, Inc.			U.S. EPA ID Number OH0000000539		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Environmental Enterprises, Inc. 4650 Spring Grove Avenue Cincinnati OH 45232			U.S. EPA ID Number OHD083377010		
Facility's Phone: (513) 541-1823					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-regulated. (non-regulated soil)		001	DM	0400	P None
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 1. Q23017 EEI Work Order #03-154920 Emergency Contact: CHEMTREC (800) 424-9300 or (703) 527-3887 CCN836231 22-13892					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offor's Printed/Typed Name James M. Parnell		Signature <i>[Signature]</i>		Month Day Year 05 04 22	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:	
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name James M. Parnell		Signature <i>[Signature]</i>		Month Day Year 05 04 22	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Chaire Doyle		Signature <i>[Signature]</i>		Month Day Year 5 4 22	

Environmental Enterprises, Inc. - Waste Receipt Worksheet

Date Received 5/4/2022

Profile # Q23017

Permitted ☒

Minor Variance ☒

Generator East Troy Site

HCT #'s 22-13892

Unacceptable

Off-spec ☐

1400 Dye Mill Rd

Initial CD

Recertify? ☐

Troy, OH 45373

Manifest # 050422

Size	Count
	1

Comments

Description Non-Regulated Soil

Anticipated Treat H141

RUMPKE

Lab Number 675643

Comments

RCRA Codes: None

Billing Code: NHLF1

Status: Approved

Expiration Date 4/26/2023

QA DATA

LAB DATA

As Profiled	Color varies	Layers	Phys St	pH	Visc.	Odor	% Sol	Amt (G)	Size	Actual Treat	PCB	FP	BTU	CL	CNT	CN A	CN QA	Ox	Hg	HeN
22-13892	<u>Clear</u> <u>Black</u>	<u>S</u> B	<u>SOL</u> <u>119</u>	6-8 6	HIGH H	NONE N	99 99	33.33	55	Rumpke		3M						N		N

99.1. Sol. QA added Liq to phys st.

Load Number: R22458

Manifest 050422

Profile

Q23017

HCTs

22-13892

**EEl WORK ORDER**Order Date: 04.28.22

Work Order No.

03-154920

Sales Person #

202**Section #1**

B 1. ABS Code: TETR05
I 2. Customer: Tetra Tech, Inc.
L 3. Contact: Mr. Ray Matrolonardo
L 4. Address: 1 South Wacker Dr.
I 5. City/State: Chicago, IL 60606
N 6. PO#: _____ Credit Approved ☒
G 7. CH/COD Yes ☐ No ☐ Dollar Amount _____

Section #2

Time Sheet #:
Phone #: 513-532-4289 Fax _____
To be invoiced by: Field Service
Trans Fee: _____ Pump Fee: _____
EEI PN: _____
COT ☐ COD ☒
Additional Information see quote for details

Section #3

T 1. Pickup ☒ Deliver ☐ Receive ☐ Return ☐
R 2. Generator: East Troy Site
A 3. Contact: EHS Manager
N 4. Address: 1400 Dye Mill Rd
S 5. City/State: Troy, Ohio 45373
/ 6. Phone #: 312-201-7748 fax# _____
P 7. EPA ID #: _____
R 8. Additional Information _____
O 9. _____

Section #4

Depart Date _____ Pickup Date 05.04.22
delivery date 05.04.22 Time _____
PLANT ☐ ESD ☒ L.P. ☐ LAB ☐ MET ☐ MA ☐
Paperwork YES ☒ NO ☐ DOT label kit - Y ☐
Labels YES ☒ NO ☐ Haz ☐ Non-Haz ☒
Manifest# _____
Cont. Pages _____
Land Ban ☒ Bill of Lading ☐
Contract Transporter: _____

Section #5

M 1. Types of Materials Needed Quantity Size
A 2.
T 3.
E 4.
R 5.
I 6.
A 7.
L 8.
S 9.
S 10.

Section #6

Roll-Off ☐ Straight Truck ☒
Rubber Lined ☐ Van Trailer ☐
Stainless ☐ Van Lift Gate ☐
Vac-Tanker ☐ Dump Trailer ☐
Tanker ☐ Vac-Truck ☐
Drum Wand ☐ FS Truck ☐
Other Equipment _____
Hose Size: _____ Feet
Wt. Ticket Needed Yes ☐ No ☐ Empty ☐ Loaded ☐

Section #7

1. Quantity	Size	Profile #	Description / Other	Wt. Req.
2.				
3. 1	drum	Q23017	Nonregulated Soil	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

Driver sign as generator on Manifest.

HCT #: 22-13892 Off Spec: Yes ☐ No ☒ Off Spec Report Number: _____
Date Received 5-4-22 QA Tech: CD Invoice Date: _____
WO Copies: 1. Original ☐ 2. Manifest ☐ 3. Supply ☐ 4. QA ☒ 5. HCT ☐ 6. Trans. ☐ 7. Final ☐